Shanghai XunLang Digital Equipment Co.,Ltd

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Thank you for purchasing Xunlang Portrait Machine Series.

In order safely and correctly use the machine on the basis of comprehensive understanding of its performance. Please be sure to read this operating manual carefully and keep it properly.

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We have tried our utmost to edit this operation manual and have already tested the product. If you find any mistakes or printing errors, please let us know, we would be extremely grateful.

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1 Safety Instructions

Safety Precautions

Before using this printer, please read the following safety precautions, to ensure the safe use of the equipment.

General safety guidelines

- Before connecting the printer to the power supply, refer to the installation instructions.
- When either of the following conditions occurs, turn off the printer, unplug the power cable of the machine from the outlet and contact local dealers.

  The power supply cord or plug is damaged;
  Liquid into printer;
  Printer smokes or makes abnormal odour;
  Printer drops, or drying damage;
  Printer's built-in residual current circuit breaker (ground fault of earth leakage protective device) has repeatedly tripped;
  Fuse doesn’t work;
  The printer is not functioning properly;
- When either of the following conditions occurs, turn off the printer, unplug the power cable of the machine from the power outlet.

  Thunderstorms Weather;
  Power off during printing;

Important safety guidelines

- Do not insert anything into the printer’s platform, Carefully not to let liquid spilled in the printer;
- Can only use the type of power source that he printer's label identifies. According to the different countries and regions, may use 110V or 220V AC;
- All devices connected to a properly grounded outlet, avoid socket with photocopiers or air conditioning system used by these rules to switch between on and off the device in the same loop;
- Avoid using wall switches or automatic timers controlled outlet.
- Keep your computer system away from potential sources of EMI, such as speakers or cordless telephone.
- Do not use the damaged or worn Power cable.
- If you use the attached Power cable, make sure to insert the extra total amps of power line devices do not exceed the rated amps of the power supply, in addition, make sure to insert total number of amperes of all devices on the wall do not exceed the rated amperage of the wall outlet;

Precautions During Printing

- When turn on the printer, do not move the print head with hand or the printer may be damaged;
- Always use the power switch to turn off the printing, but when the button is pressed, the power supply will be cut off. Before the power is cut off, do not unplug the printer′ s plug or cable.
- Before moving the printer, ensure that the print head in the initial position, and fixed.

Electric Shock Dangerous

Warning！ Drying system uses normal AC, when the system is in use, do not your hand or other objects into the drying system, this will cause human injury or damage the object.

Printers use two power cable. Before repairing the printer, please unplug the two Power cable. The printer can only be connected to a grounded AC outlet.

To avoid the risk of electric shock, please keep the following in mind:

- Do not attempt to remove the dryer or electric control cabinet.
- Do not remove any other closed or open cover or plugs.
- Do not insert any objects in the slot of the printer.

Attention！ Circuit fuse fuses may indicate that the system has failed, Call your local dealer, and not try to replace fuse on your own.

Dangerous Of Getting Burn

Drying system running under the high temperature of the printer, if touched, can cause burns. To avoid personal injury, please note the following precautions:

- Do not touch the printer drying system′ s interior cover. Even after power is disconnected from the drying systems, internal surface may still be very hot.
- When contact material drying channel, special care should be taken.

Fire Disaster

The printer produces high temperature drying system at run time. If the printer's built-in residual current circuit breaker (earth fault leakage protector) trip repeatedly, please call your local dealer.

To avoid a fire hazard, please note the following precautions:

- Use the power supply voltage specified on the nameplate.
- Connect the Power cord to a dedicated line, and according to the wall outlet's rated parameters, use the branch circuit breaker protection for each line.
- Do not use the same power strip (insert row= to connect the two power cables.
- Use only the Xunlang Power cord that together provided with the printer.
- Do not use a damaged power cord. Do not use the Power cord supplied by the other products.
- Do not place any objects in the slot of the printer.
- Be careful not to liquids spilled on the printer.
- Do not use the products which contain flammable gases of spray near or inside the printer.
- Do not stuck or block the printer opening.
- Do not attempt to remove the drying systems or electric control cabinet.
- Mounts to 125 ° c (257 ° f) operating temperature and the temperature of spontaneous combustion higher than 250 ° c (482 ° f) materials (media).

Mechanical Dangerous

The moving parts of the printer may result in personal injury. To avoid personal injury, when working close to the printer, please note the following precautions:

- Keep clothing and all parts of the body away from the moving parts of the printer;
- Do not wear necklaces, bracelets and other hanging articles;
- If your hair is longer, please protect to prevent hair fall into the printer;
- Be careful and not to let your sleeve or glove is entangled by moving parts of the printer;
- During printing, do not touch the gears or the reel

Materials (media) Excessive Weight Risk

When dealing with heavier material, and should be especially careful to avoid personal injury:

- May many persons to carry a reel of matrix material, should be very careful to avoid back injuries
- Consider using a fork-lift truck, pallet truck or other handling equipment.
- Carrying a heavier material or reel , please wear personal protective equipment, including gloves and work boots

Ink disposition

- Keep the ink bottles out of the children′ s reach, don't let the kid drink or touch ink bottles;
- If the ink stick to skin, clean with soap and water; If ink splash in eyes , immediately flush with water;
- Do not shake ink bottles, this will cause the ink leaking;
- After using the ink bottles for a certain period (usually three months), immediately removed for thorough cleaning and drying; Pay attention to cleaning when replaced a new ink bottle to ensure print quality;
- Dispose the waste ink In accordance with relevant local laws;

Warning and notice

This manual uses the following symbols to ensure proper use and prevent the printer from damage. Please follow instructions marked with these symbols.

Warning! If you do not comply with guidelines marked with this symbol, may result in severe personal injury or even death.

⚠ Caution! If you do not comply with guidelines of this symbol, may cause damage to your printer.

⚠ Attention! If you do not comply with guidelines marked with this symbol, can cause minor personal injuries or damage to the product

2 Installation Requirements

2-1 Recommended Computer Configuration

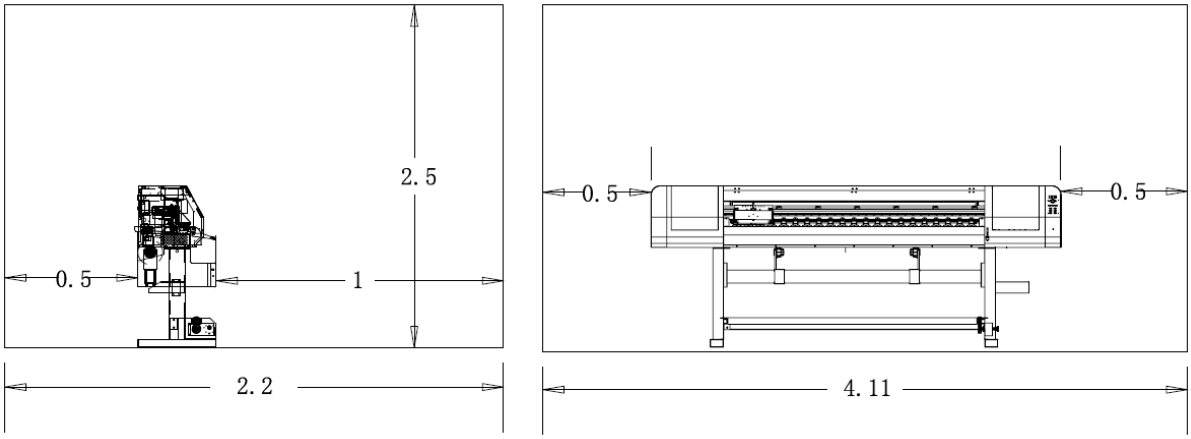
CPU: Intel Core Duo 2.50GHZ or above
Memory: 2.00GB or above
Mainboard: INTEL G41 or above
Operating systems: Microsoft WINDOWS XP/VISTA/7 or above

2-2 Site Preparation

Customers is responsible for complying with all requirements for installation implement them while the machine is running or the machine may not run properly.

2-2-1 Working Area

The working area listed below refers to the Xunlang VanGogh series printer (herein after equipment), as shown in the figure.
Please note that users should make sure that the operations personnel's safety in the area.
Working area is long of 4.11 meters, width of 2.2 m, and height of 2.5 meters.
Xunlang VanGogh series printer (width 1.8 m) size: 3.11 m long, 0.7 meters wide, 1.38 m high



2-2-2 Environmental Requirements

Devices should be away from the joint equipment (cloth connection machine) or other sources of radio frequency interference. The floor should be easy to clean and does not produce dust and static electricity.
In order to help operators and customers to judge color accuracy, you should try to use neutral gray and white decoration of light (fluorescent) lighting.
Equipment should be installed in a clean, dust-free, controlled temperature and relative humidity controlled in the environment as following:

Altitude: within 1000 m from sea level
Temperature: 15-35 ° c
Relative humidity: 40%-65%

2-2-3 Floor Requirements

The floor material should be able to guarantee security in the working region evenly distributed, during installation, the system should maintain the precise level, ensure the right of the print head moves , so as to prevent sliding and spring.

Warning !

Flooring materials within the work area must be able to prevent static and prevent dust accumulation, if necessary, before laying the device in place, can put work area clean or polished cement on floors within working area. Never leave carpets, flooring materials etc.

2-2-4 Load Restrictions

Equipment net weight 200-250 kg.
Device maximum expected general increase of 60 kg.
Recommend that the equipment should be installed at 4 pieces 20 cm in diameter on the plate, or more than 4 pieces 200 x 200 mm, 8 mm thickness of the steel plate.

2-2-5 Space Requirements

The front of device refers to printing input side. Equipment requirements front reserved 1 m. Keep 0.5 m on the back, left and right edges keep 0.5 m each. In addition, the space reserved area also includes 2.5 m height above the ground. Besides, the machine also should make room for feeding or unloading the supplies.

2-2-6 Safety Requirements

- Fire Prevention
  Inks and solvents must be enclosed in a special storage cabinet for nonflammable liquids, or within a separate storage room, and must be clearly identified to meet the professional requirements of safety regulations.
  Ink storage must be strictly compliance with local fire regulations about the use and storage of combustibles.
  Carbon dioxide and dry chemical fire extinguishers should be placed in all channels of the obvious and easy access location. They should be on the device and nonflammable liquid storage cabinet (room) nearby, or to comply with local fire regulations require.

- Ventilation
  In order to prevent the danger caused by volatile gas accumulation, must have sufficient ventilation to ensure every 1 hour replacing the air of the working area of about 6 to 8 times, vents should be low enough so that gas cannot accumulate on the floor near the volatile.
  When the media gets through of drying devices, because ink solvents are volatile, so need an emission system

Note: solvent gas specific gravity is greater than air, it would accumulate near the floor.

Installation work in the vicinity of electrical equipment must conform to GB/T standards, national electrical regulations requirements for level II sites, and installation.by a corresponding qualification of professional electrical contractor.

Attention !

Hazardous waste treatment provisions should comply with the relevant sector-specific special storage and handling requirements.

2-2-7 Electrical Requirements

Devices use single phase power and require ensuring a good grounding connection independently.
Grounding resistance less than 10 Ω
Power supply range: 220V voltage (± 10%), AC 50Hz or 60Hz. Users must assign a professional electrician or contractors to install power supply.
Circuit breaker ratings are as follows:

Power Supply\ Voltage	AC 220V	AC 110V
Single phase	10A/phase	20A/phase

Maximum power consumption is less than the 2-kilowatt, average power consumption of 1.2 kW.
UPS available 3KW, can be simultaneously connected to the computer and the power of the machine.
Device accompanied with a standard 5-metre cable.

2-2-8 Operator Requirements

For the operator of the machine, it is recommended as follows：

Responsible for the operation and maintenance of the machine;
Keep in touch with the XunLang after sale services;
Can solve the problems by telephone;
Experiences of PC and Windows;
Technical Background of machine or electricity;
Capacity and theory about color, the knowledge of pre-printing and after-printing;

2-2-9 Installation Requirements

Installation requirements devices must be installed in a standard place. After the device in place, use gradienter to check from the front to the back and make sure the ground is plain enough. It is suggested that to install a telephone beside the operator console to facilitate the daily operation.

Warning !

Before the device powered on, be sure to connect the ground, ground wire to ground resistance can't be bigger than 10 ohms

2-3 Checking Before the Installation

- ✓ Should report to the dealer the site's voltage in advance.
- ✓ The machine′ s power Jack is at the back of the machine (on the left).
- ✓ Air conditioning of the room should be sufficient, and keep above temperature (15-35 ° c).
- ✓ Customers should prepare in advance an appropriate machine installation tools: above 1-ton forklift truck or 1 ton crane. Must in advance inform Xunlang all the tools used by the company or the resulting delay will be charged.
- ✓ The customer should not open the box if the engineer is not presence.
- ✓ Any damage of packaging should, before the engineer arrives, take pictures and immediately report to the dealer.
- ✓ Customers must complete all preparations and cleaning before the engineer arrives because dirt may cause some damage to the machine.
- ✓ Customers should prepare other devices, such as MAC and Photoshop Freehand, Illustrator, other application software and 100M computer networks used by MAC.
- ✓ During the installation, should have at least two operators next to the machine, who have proficient computer skills, printing experience is preferred.
- ✓ Before the operator gain enough experience, customers do not produce alone. Training program must be taken in advance.
- ✓ Ink from ordering to delivery need long time, the customer should order in advance to avoid affecting the normal production.
- ✓ The customer had better order some normal spare parts to void affecting the production.
- ✓ On the shipping container labeled "right and left" and "before and after", please note when loading and unloading.
- ✓ Please carefully read the engineers machine check file, each item in the table are required "YES", after everything is ready, pass it back to the Distributor customer service and maintenance center before you start the installation.

2-4 Shipment, Opening Box and Checking

2-4-1 Shipment

- ◆ When loading and unloading, must pay great attention to the wooden surface marks, handle with care, may not be in superposition of weights above, and pay attention to the rain.

- Transport vehicles must be smooth, and there shall be no sudden brake pulsation caused by sharp movements, such as wooden boxes, rollover, and other factors which lead to wooden box damage.

2-4-2 Opening Box

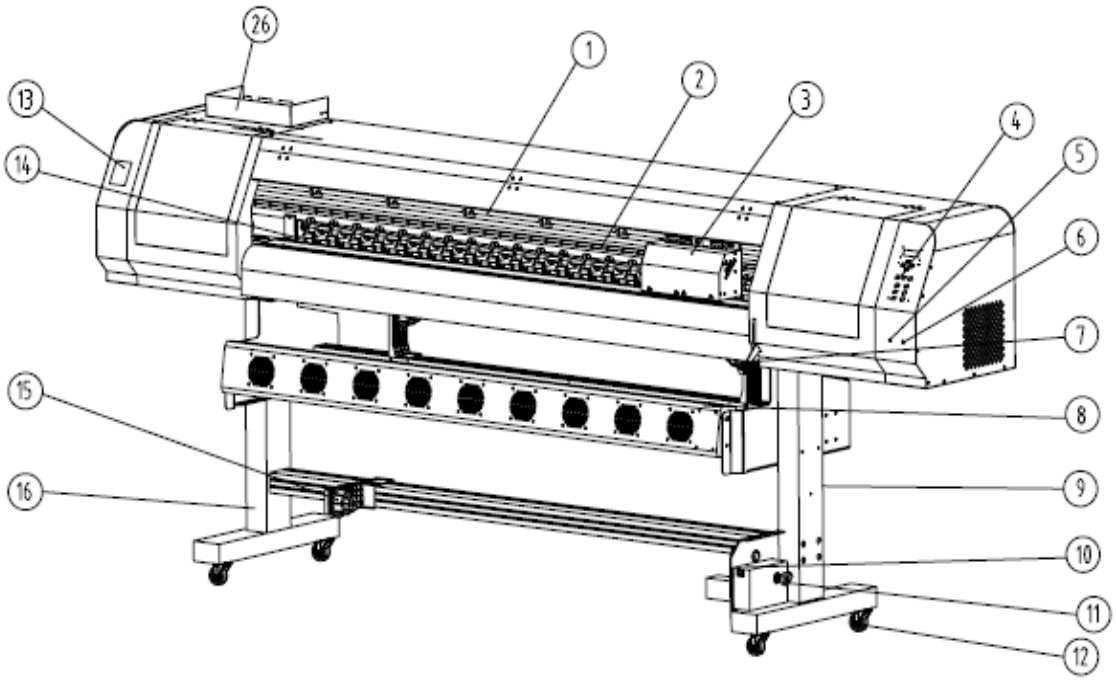
- If there are any damage before opening the box, take pictures timely, and immediately proposed treatment and inform Xunlang Company.
- Remove the wooden roof.
- After the removal of bolts around the wooden, remove wood around.
- Remove the machine out of the box and check the accompanied articles

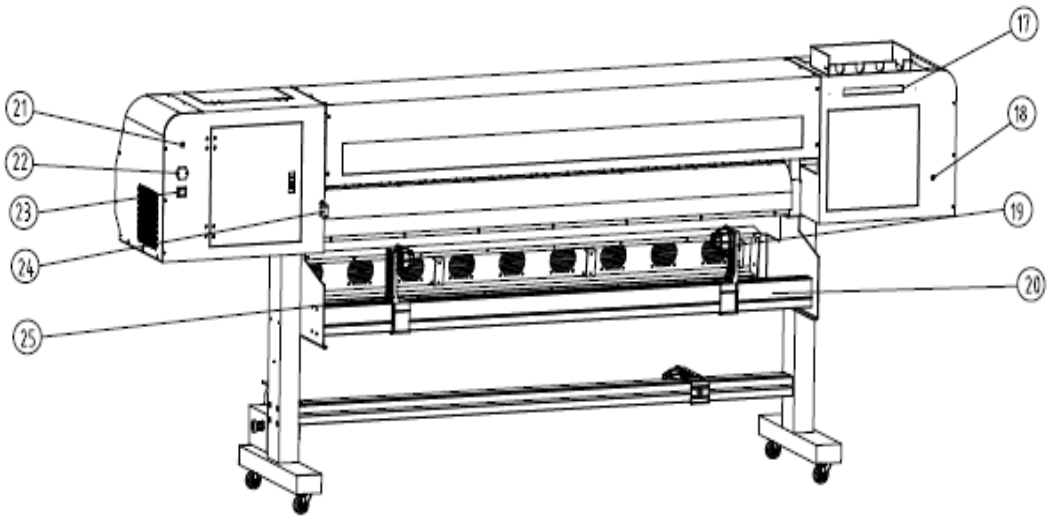
2-4-3 Checking

- By the presence of machine engineers, check the articles one by one.
- After checking, customer signs on the list and then bring back by a machine engineer. If anything is missed, please indicate on the list,Xunlang will make it/them up ASAP.

3 Main Parts and Random Parts Recognition

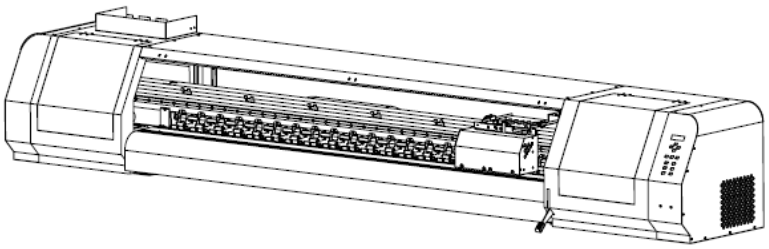
3-1 Main Parts Diagrams



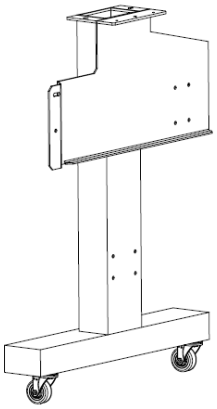


1	Raster Slip	10	Taking Up System	19	Right Feeding UP Support Frame
2	Guide Rail	11	Taking up adjustment: Knob Cabinet	20	Feeding Up Support Crossbeam
3	Carriage Board	12	Castor	21	USB Interface
4	LCD Control Panel	13	Heating Control Panel	22	Power Supply Interface
5	Platform suction wind regulators	14	Pinch Roller	23	Main Power Switch
6	Taking up ele-motor speed regulators	15	Taking Up Support Frame	24	Back Pressing(wheel) Handle
7	Front Pressing(wheel) Handle	16	Left Upright Post	25	Left Feeding UP Support Frame
8	External (IR) drying system	17	Ink Tube Groove(into the Tube)	26	Ink Bottle Box
9	Right Upright Post	18	Y-motor belt tension adjustment	27	

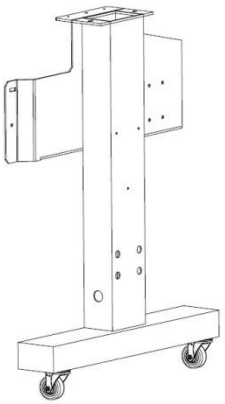
3-2 Random Parts Diagrams



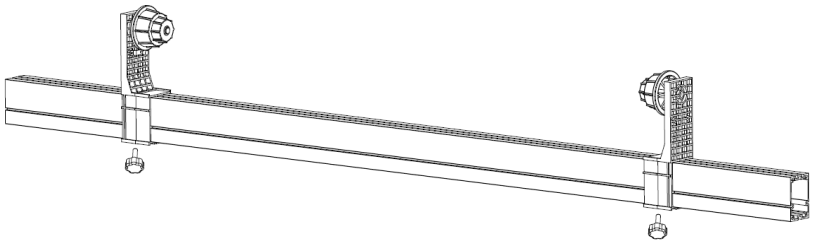
Main Body



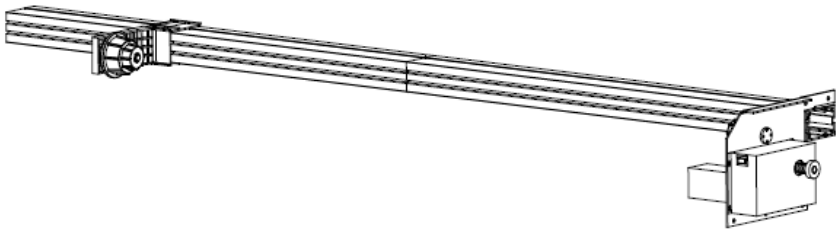
Left leg of Machine



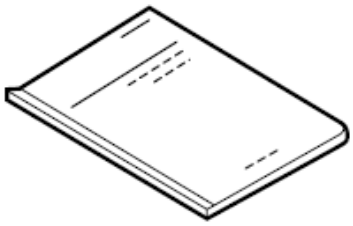
Right leg of machine



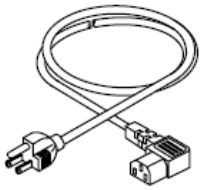
Feeding in system



Taking up system

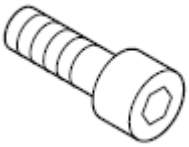


User Manual

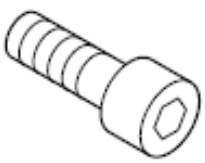


Power Supply Cable

Software CD



9 “M5”screws for installing taking up system



22“M6”screws for installing two crossbeam and main body

4 Machine Installations

4-1 Install legs and body

Warning !

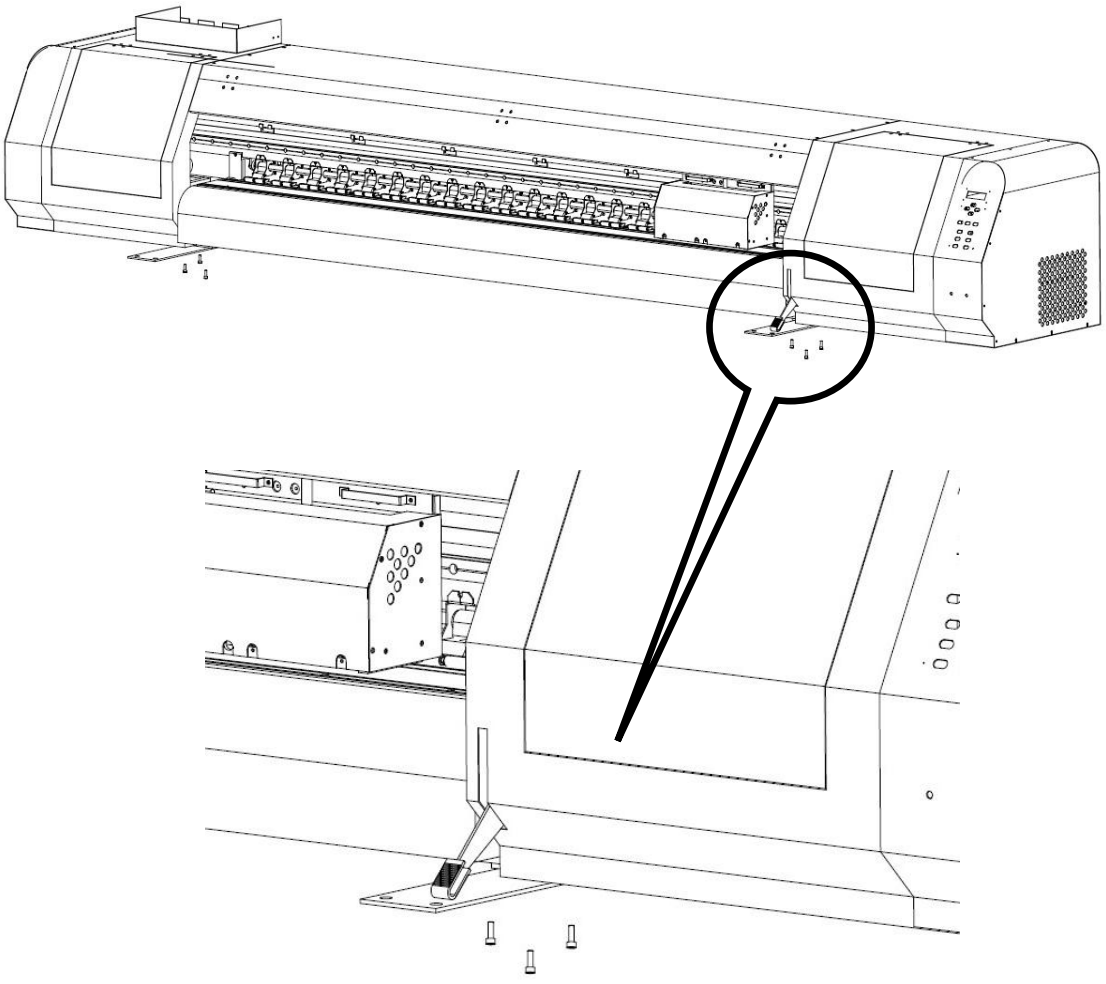
- The total weight of the machine, including box, is above 300KG. For safety concerns, the assembling requires at least 6 persons
- Please Pay Attention: Do not drop the main body on your arms and legs.

(1) Unloading

Remove the machine body, along with the fixed iron panel from the bottom of the box.

Remove the fixed iron panel from the machine body.

Remove 3 screws.

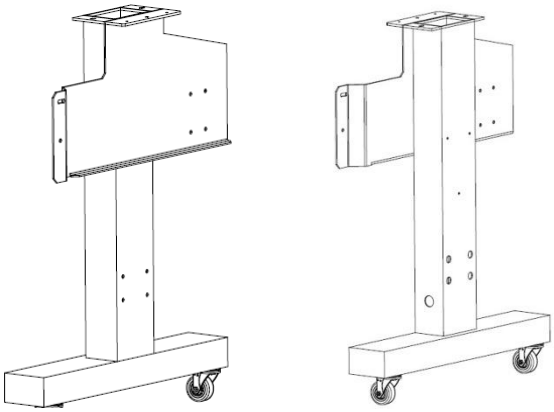


(2) Take out the leg of the machine

Take out the leg of the machine,

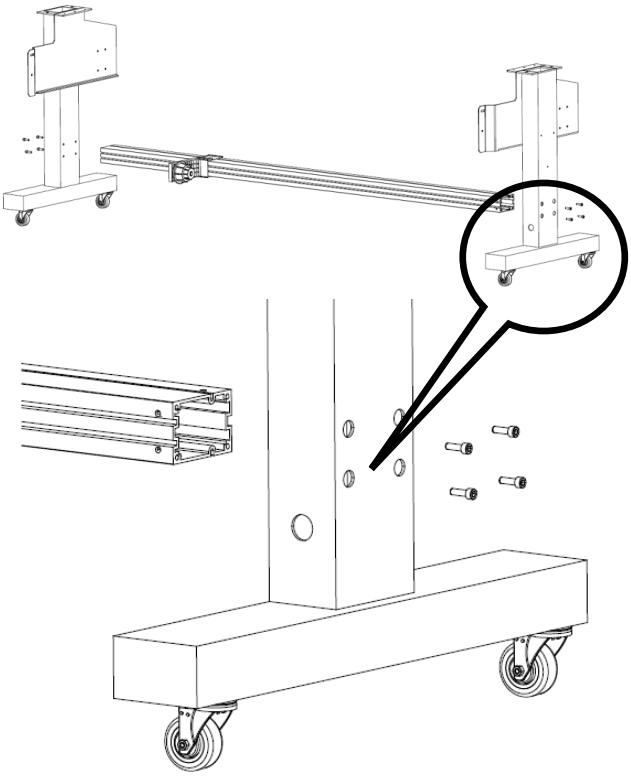
Let the "***feeding in*** support surface" place as shown in the picture.

The surface that faces the right is left leg, while, the other faces the left is right leg



Left Leg Right Leg

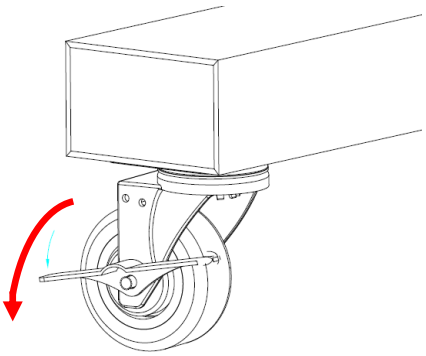
(3) Installation The Crossbeam



As it shows in the picture, fix the screws on the right and left legs to make the crossbeam firm.

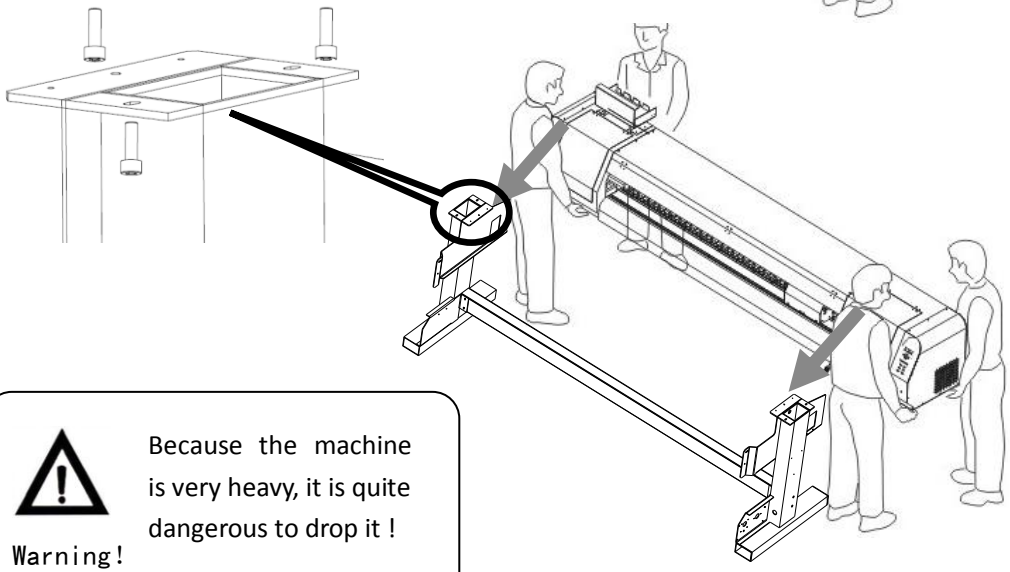
(4) Locking Casters

As it shows in the picture, hit the locking device of the caster with foot till it touches the ground.



(5) Lifting The Main Body

(6) Place the leg of the machine and Fix the screws. Put the main body on the legs, connect the two parts with the screws. Make sure they are firm enough.



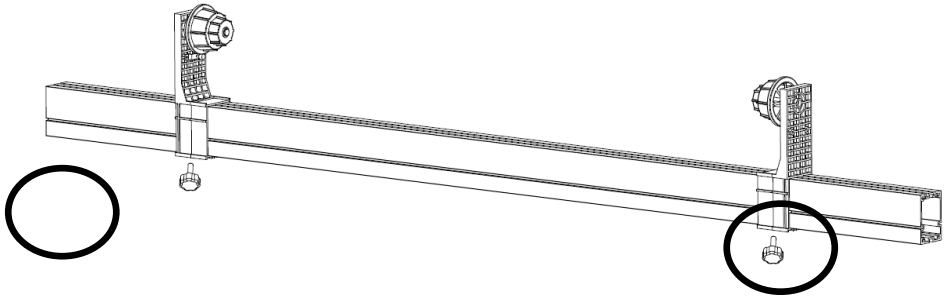
Warning!

Because the machine is very heavy, it is quite dangerous to drop it !

4-2 Install the Feeding In& Taking Up System

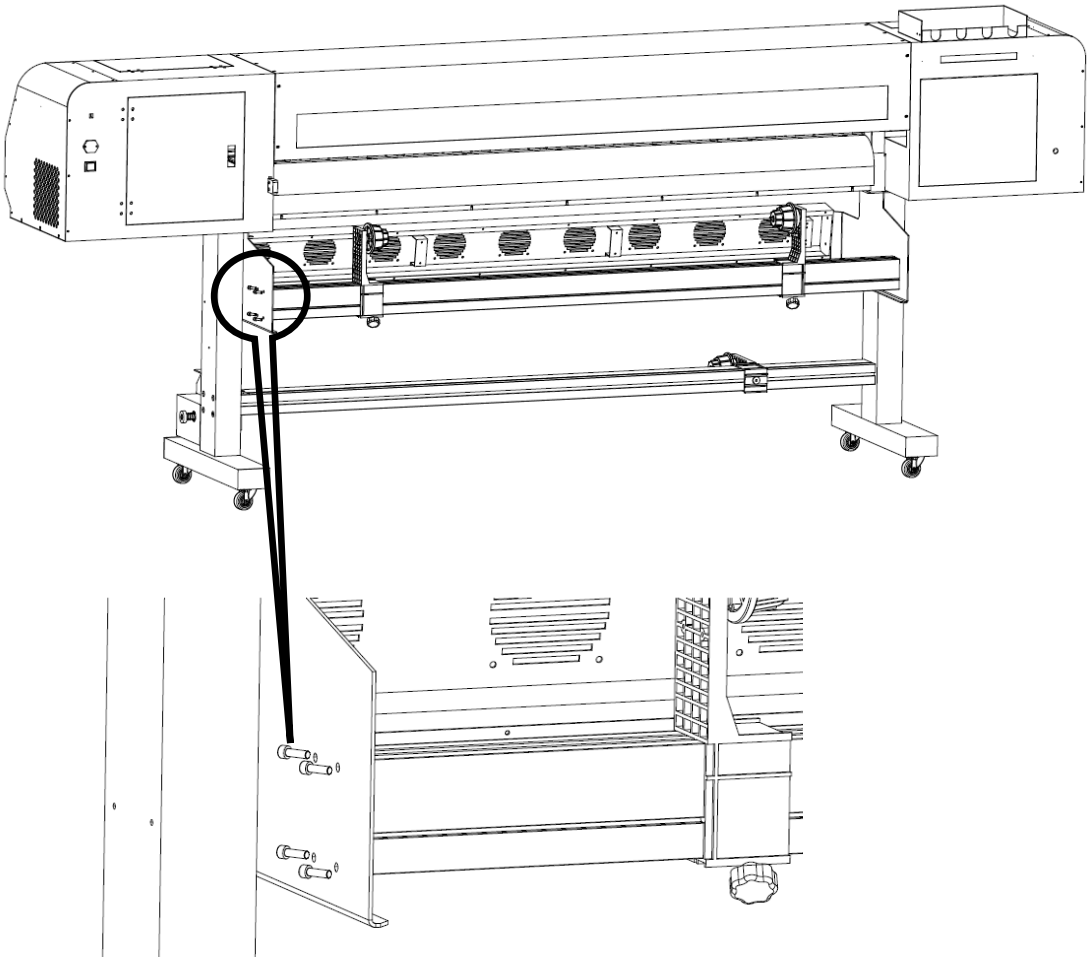
Installation Media Feeding

(1) Installation the media feeding left& right supporting frame.
Make the frames go through the beam and twist the bolts firmly.



(2) The Supporting Frame

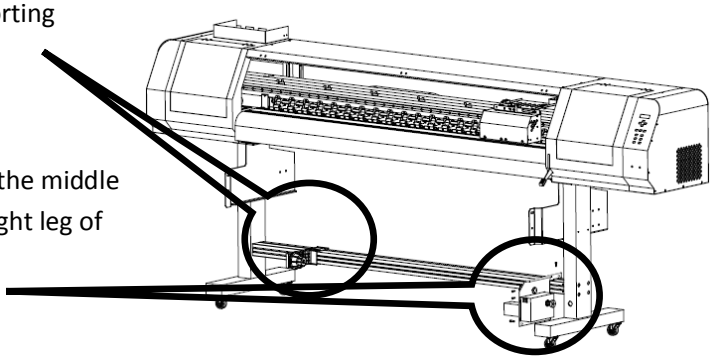
Install support beams on the machine left and right bracket and fix screws.



Media Taking Up System Installation

(1) Put the" taking up" supporting frame into the beam.

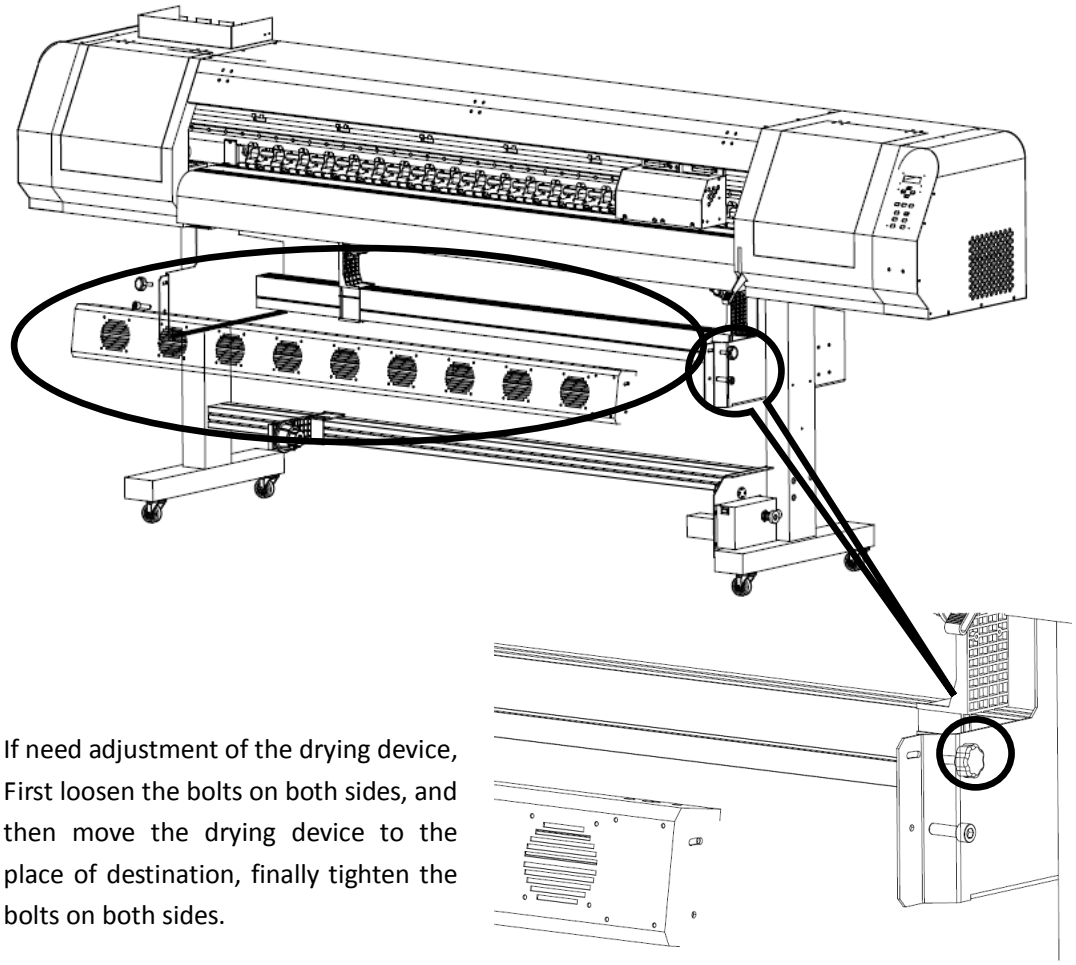
Firm the "taking up device" in the middle beam, then must fix it at the right leg of the machine.



(2) Loading media roller

4-3 Install the Drying Devices

Fix the drying device in the left& right supporting frame of the machine, Tighten the captive screw and twist lock bolts.

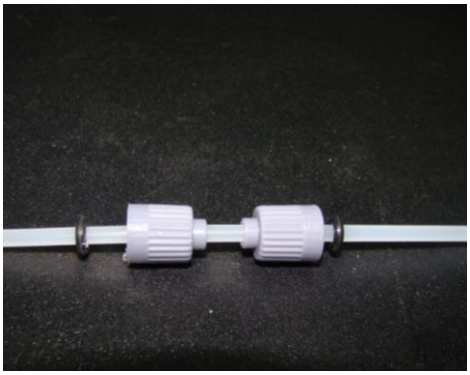


If need adjustment of the drying device, First loosen the bolts on both sides, and then move the drying device to the place of destination, finally tighten the bolts on both sides.

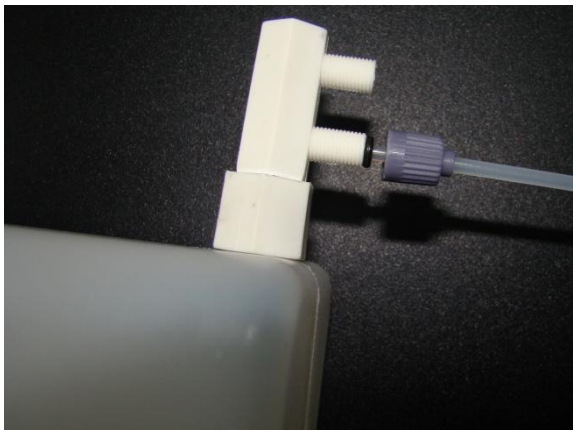
4-4 Install the Ink Tank

4-4-1 Connect Ink Tank Channels

(1) Prepare a pipe of the certain length (recommendation10CM), link the pipe ends with connecting nuts, and then fitted with gaskets.



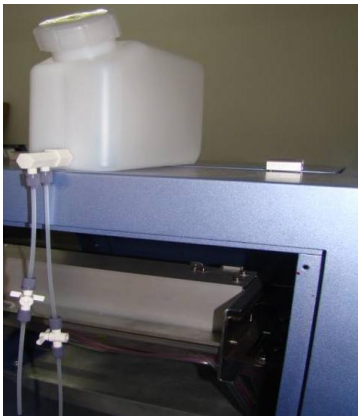
(2) Connect one side of the prepared pipe with the ink tube connecting point. Insert pipe into the connection until the bottom. And then fix the connecting nut at the ink tank.



(3) Connect the other end of the pipe with the control valve, also insert the pipe into the bottom and tighten the connection nut.

(4) As the 1st step and then prepare a pipeline (10CM), connect on side with spiral and washer and then the other end of the control valve and tighten the connection nut.

(5) Repeat step 1--4 and Link the other side of Ink tube's connection to the tube and control valve.

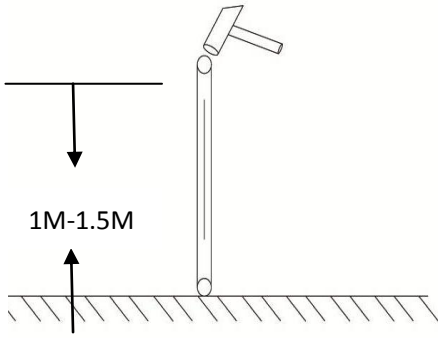


4-4-2 Install the Ink Tank

Put the ink box that connected with the tube into the ink bottle.

4-5 Install the Ground Cable

(1) Bury iron bar
use 1.5 meters in diameter of round steel (1cm - 2 cm) or angles steel to bury in the damp soil.



Attention!

Please confirm if iron bar that have been buried in the ground near a transformer or other national power/communication cables or facilities, should be kept away.

(2) Irrigate the brine
Use 500 g of edible salt and 1000 g water to make salt water and then irrigate on the iron bar.

Attention!

- Salt must be completely dissolved in the water.
- To ensure the ground conductivity, please irrigate salt-watering once every month.

(3) Connect the Cable

Find a 2 mm diameter cable，and use a welding gun to weld the cable in the bar（uneasy to fall）, Connect the other end with the screws that ground cable marked of the machine. If there is no sign, could connect to the bare shell of the machine parts (part without spray painted, such as Castor and the common power strip ground cable)

(4) Measurement of Earth resistance

Under the machine power is on, Use the neon-electroscope to measure the “Live and Neutral" of the machine (measurement method, please refer to the relevant document)

Then shut down the machine, turn the multimeter's resistance to the minimum, measure the resistance between ground and neutral, the resistance should be less than 10 ohms.

5 How to use

5-1 How to use--***basics***

5-1-1 How to connect USB Cable

The following will described in detail how to connect the USB cable and switch machine.

Attention!

Turn off the machine power before Connecting or disconnecting the USB cable

As the picture shows, use the USB cable to connect the machine with the computer.

Attention!

USB interface of the PC must be version 2 and above.

USB

5-1-2 How to Connect the Power Cable

When connecting the power cable, in following specifications socket, connect the power cables:

Voltage: 220 V± 10%

Frequency: 50 Hz ± 1 Hz

Power: 8 A (more than 1500 W) {s-series 10 A (more than 2000 W)}

Attention!

Please turn off the Power supply when connect or disconnect the power cable.

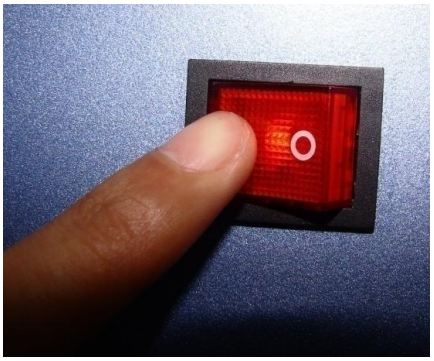
(1) As the following picture shows, connect the power supply cable:

AC outlet

(2) As the follow picture shows， through the switch, turn on or cut off the Power supply.

Connect the Power supply

Turn the switch to 1 to turn on the Power supply

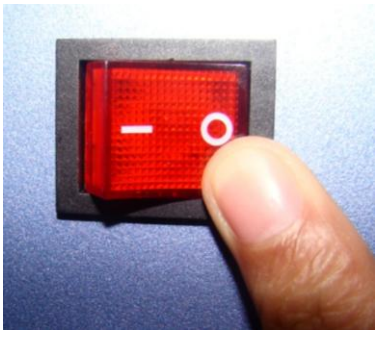


Attention! Before turning on, check if the ground wire is well connected.

Attention The first time connect the Power supply，（USB Cable is well connected）The Computer will shows that found a new hardware and then follow the instruction.

Cut off the Power Supply

Turn the power supply to O to cut off the Power supply



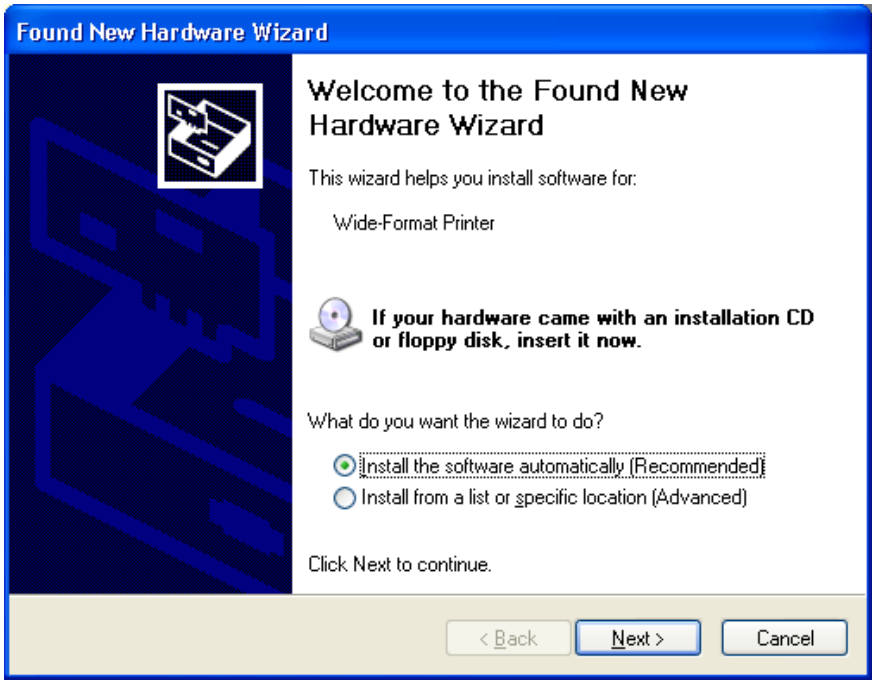
Attention! Before turning off, be sure to confirm if the Print head is protected.

5-1-3 How to Install the Driver

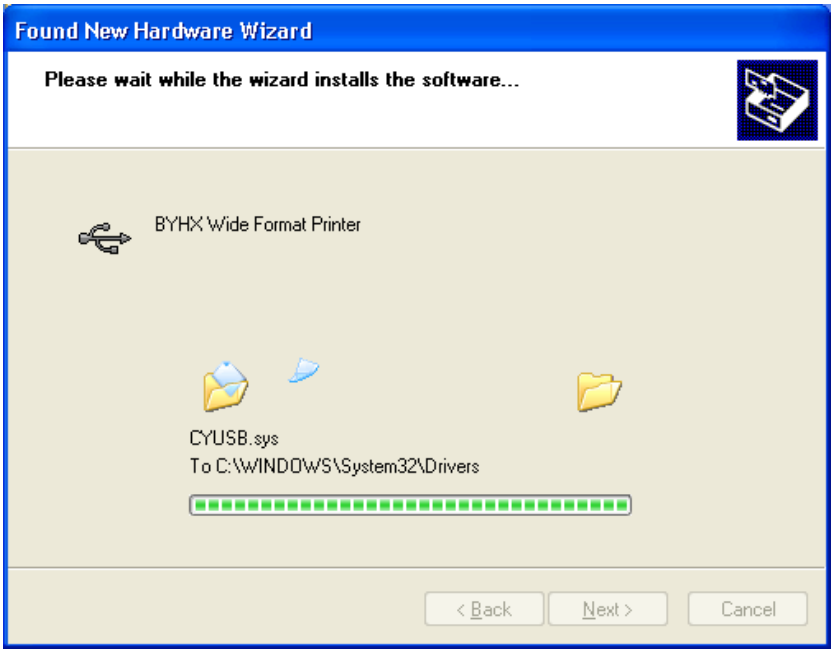
If it is the very first time to link the machine to the computer， the computer will shows the new hardware at the lower right corner, as the picture shows, now we install the driver step by step.

(1) Find The New Hardware

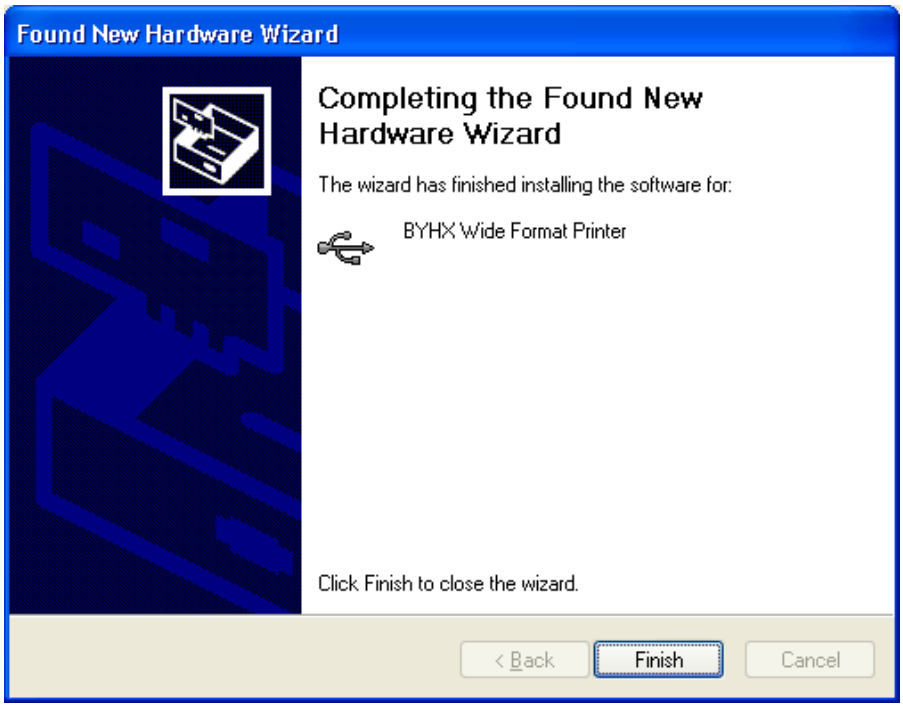
(2) Hardware Guiding Appears Automatically.


Found New Hardware Wizard
Welcome to the Found New Hardware Wizard
This wizard helps you install software for:
Wide-Format Printer
If your hardware came with an installation CD or floppy disk, insert it now.
What do you want the wizard to do?
Install the software automatically (Recommended)
Install from a list or specific location (Advanced)
Click Next to continue.
< Back
Next >
Cancel

(3) Click automatic installation



(4) Click the “finish” complete.


Found New Hardware Wizard
Completing the Found New Hardware Wizard
The wizard has finished installing the software for:
BYHX Wide Format Printer
Click Finish to close the wizard.
< Back
Finish
Cancel

5-1-4 How to Add the Ink

The picture will show how to add the bottle ink or bag ink.

Bottle Package Ink Adding

Bottle Cap unscrewed, open the sealing film with a knife and then pour the ink into the ink tank.

Bag Package Ink Adding

Take the ink bag of out of the box, and then in a corner with scissors, cut a small opening, and then put the ink into the ink tank the same way as bottle ink's.

Attention!

Before adding the bag ink, please confirm its capacity (normally 1000ML), 3000ML cartridge capacity of the machine, as far as possible ensure that the bag ink every time you add all ink, because the rest ink is not easy to save.

5-1-5 How to Add the Media

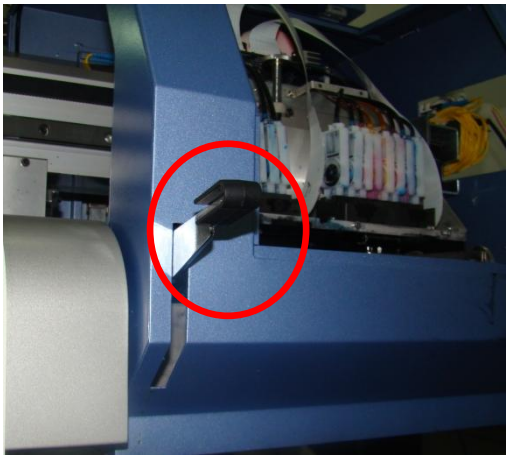
Can install 2 kinds of media: Rolling Media and Single Sheet Media.

Install the Rolling Media
Rolling Media, please only use the media that is suitable for the machine.

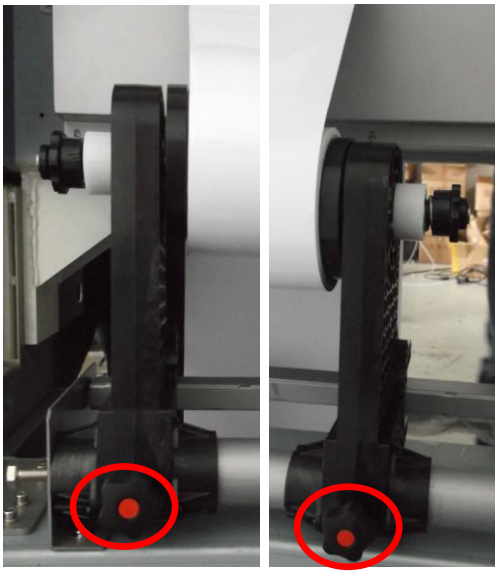
Attention!

- Roll media is heavy, be careful not to fall off on feet
- Before installing the rolling media, please be sure to confirm the carriage's height.
- Please confirm the printing side of the material.

(1) Uplift The Press Roller Handle



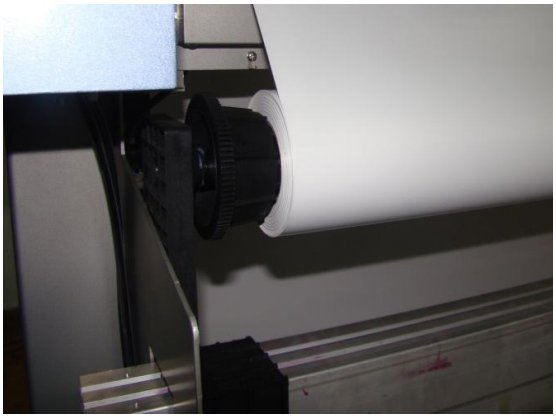
(2) Move the left (facing the back of the machine) supporting frame to the far left and fix the bolt tighten, move the right supporting frame to the far right (not fixed)



(3) Insert the media roller tube into the left support frame.

First of all, confirm the media roller's printing side. And then, Insert the media roller's tube into the supporting frame till it is fixed. There are two kinds of Media roller's tube:

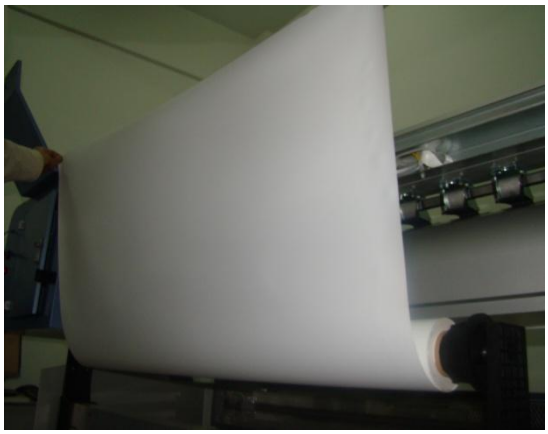
inner diameter of 2.5-inch and 3.5-inch. Please insert in support frame that matches (supporting frame front-end and back-end).



(4) Move the right support frame to cover the other end of the media roller and fix it.

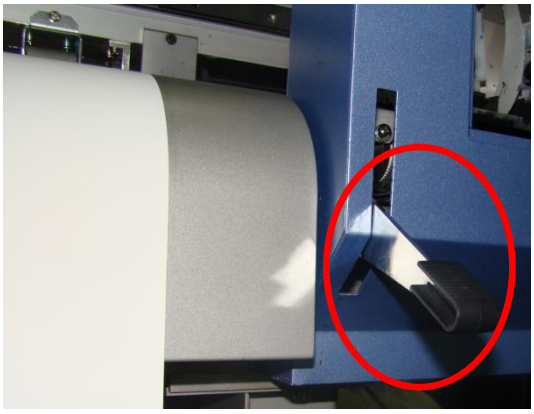
Insert the supporting frame into the other side of media roller till it is firm enough. And then tighten the fixed bolt

(5) From back of the machine, take the media roller out 50-60CM.

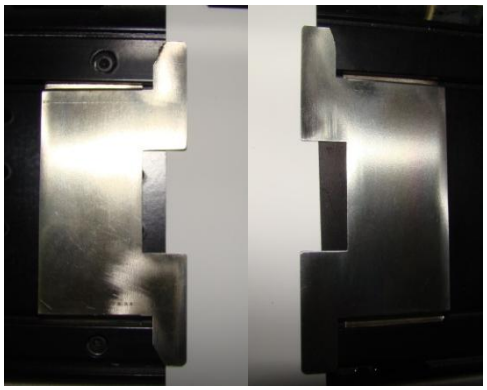


(6) Insert the taken-out media between the platform and the press roller. Pull the media out in front of the machine.

(7) Press the pressing roller firmly
Push down the pressing roller hand knob.



(8) Install the media holder



5-1-6 How to use the media

Details below show the usage of media types, as well as storage methods.

Media usable
Media usable can be the roller media or single sheet media.

Types：
Solvent machines can use: light boxes cloth, all kinds of solvent photo media, silk hanging flag cloth, solvent-based art cloth, mesh fabric, all types of solvent-membranes, all kinds of body stickers, various types of solvent-based canvas, various types of solvent-based PVC light, all kinds of solvent-PP etc.

Water-based machine can use: all kinds of water-based PP, water-based canvas, and water based PVC light, water-based film, water-based single membrane permeability, water-based photo media etc.

Allowed medium size
Available media sizes vary from Xunlang machine model. Details please refer to the list below.

	Medium Size	E180/E180S	E320S
Roller Media	Maximum width	1900mm	3300mm
	Minimum width	210mm	210mm
	Maximum printing width	1890mm	3290mm
	Media roller size	Diameter below 250mm	No restriction
	Media roller weight	Below 60KG	Below 200KG
	Media tube diameter	2 inches or 3 inches	No restriction
Single Sheet Media	Maximum width	1900mm	3300mm
	Minimum width	210mm	210mm
	Maximum printing width	2890mm	3290mm

The attention of the media on the usage and storage

Attention!

Please use special materials

The Media must use material of this machine, otherwise when a failure occurs,

the company shall not be liable.

Media thickness

When you install a different kind of material, be sure to adjust the height of the carriage, otherwise you may damage the carriage and print head.

Media Contraction

When you open the packaging materials, do not use them immediately, as the indoor temperature and humidity, sometimes the materials are scalable.

Please only use after a half hour.

Curly Media

Please do not use the media that is curled or warped, otherwise they will be scratching, causing damage to the print head. When you need to save media curly, please place the coating face outside.

Additional considerations

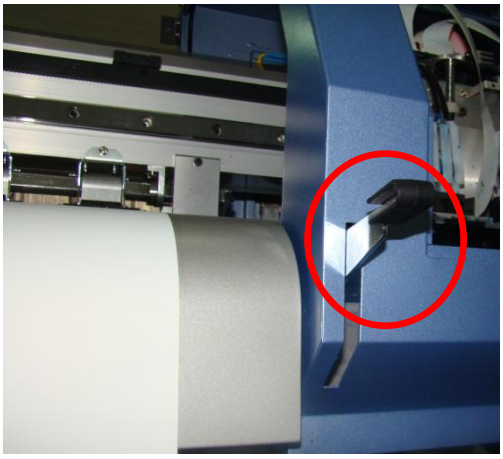
In the surface of the coating, do not place anything. When get media, should wear cotton gloves, hands should not be used directly contact with coatings 'surface. Sometimes, coating on the ink does not print after contact with hands or other objects. Transparent media and black on the back of the media, is not always detected correctly. (Width)

5-1-7 How to Unload the Media

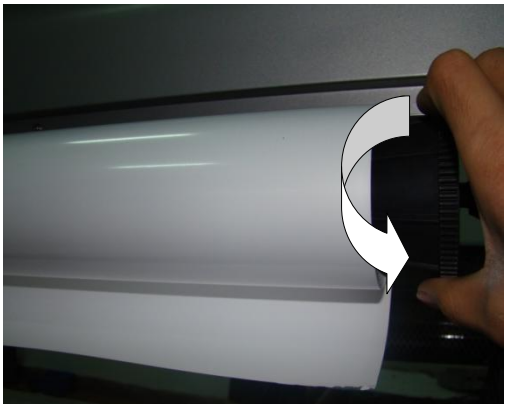
(1) Cut The Media

(2) Press once *CUTING MEDIA* Button to cut with the picture.

(3) Uplift The Press Roller

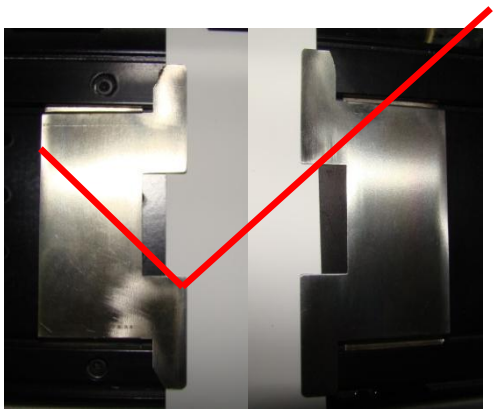


(4) Roll Back The Media



5-1-8 How to Use the Media Holder

To keep the materials plain, can use the media holder to keep the edges of the media. As it is shown in the picture. Do not make the Media Holder all on the materials，if the media runs，the are no extra space for the media holder. The media will arch up and destroy the print head.。The correct way is to press 1⁄2 on the edges of the media.



5-1-9 How to Use the Vacuum Air Suction

To adapt to the different thickness of the material, need to adjust the power of platform air suction, when heavy materials, increase platform air suction; when light materials, decrease it accordingly.

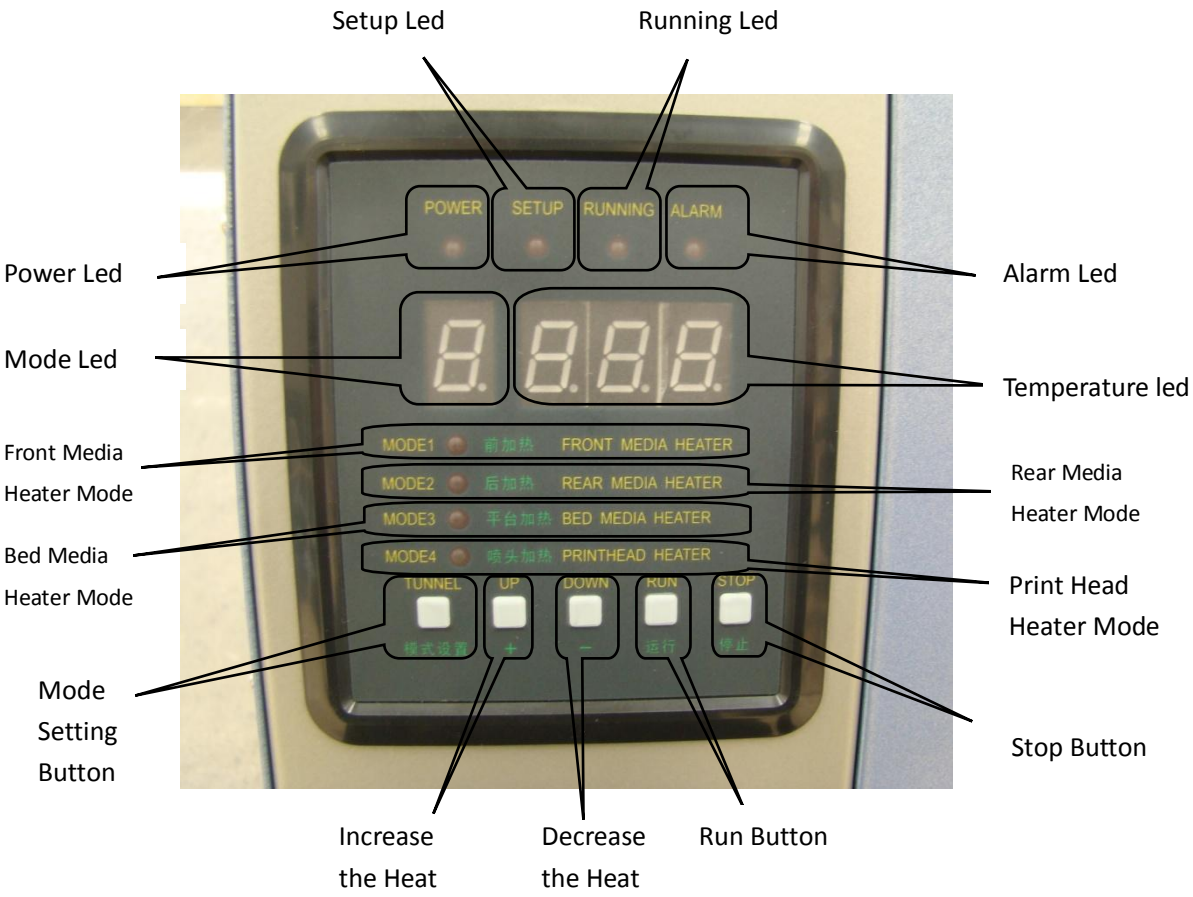
To increase the power, clockwise rotate the button as the right picture shows.

To decrease the power, counter clockwise rotate the button as the right picture shows.

Rotates to the counter clockwise till the end, hearing the ”kacha” means the air suction is shut down.

5-1-10 How to Use the Platform Heater

Platform Heating includes the front media, bed media and rear media heating. Controlled by the heating control panel, as the following picture shows:



Power Led：When the power is turned on, the led is on; if it is off, the Board is not in power and does not work.

Setup Led：When the led is on, have entered the setting mode, press the mode button once to enter the Setup Mode.

Running Led：The Led is on means the platform is currently working (heating). If the light is off, means platform does not work currently, or set temperature has been reached.

Alarm Led：When the light is on, it means that the current platform has problems, missing temperature sensor.

Mode Led： Displays the current mode, including work and status. Heating control panel there are 4 kinds of mode: before and after heating, bed heating, and print head heating. Led will continue to replace in a working state display of 4 different modes (1, 2, 3, 4) After pressing the mode button to enter the set status, keep pressing mode button can alter mode in the mode indicator.

Temperature Led： Displays the current working temperature, set status, shows the “already set temperature”.

Front Media Heater Mode：Platform heating before printing, when the mode light is on, represents current mode and the temperature led display indicates the temperature is the temperature of front media.

Rear Media Heater Mode：Platform heating after printing, when the mode light is on, represents current mode and the temperature led display indicates the temperature is the temperature of rear media.

Bed Media Heater Mode：Bed Media Heater Led, when the mode light is on, represents current mode and the temperature led display indicates the temperature is the temperature of rear media.

Print Head Heating：When the mode light is on, represents current mode and the temperature led display indicates the temperature of print head (The pattern for reserve mode, machine does not have the mode of heating devices, so when mode led shows this mode, alarm light is on).

Mode Setup Button：Press this button to enter set mode immediately, mode indicator led displays the mode does not change, then press the mode button again to switch to the next mode. Temperature indicator shows the temperature setting is displayed.

Increase/Decrease Temperature：After you enter the setting mode, by pressing the two buttons to change the current mode setting of maximum temperature.

Running Button：After entering the setup mode, when Setup is complete, you can press this button to exit the setting mode. After one mode is stopped, enter setting mode, press this button to return to work.

Stop Button: After entering setup mode, if want to stop a certain mode of heating, switches to the corresponding mode, press this button to stop the mode of heating and exit settings.

Setting cases：

(1) Set the platform heat to 35 degrees Celsius.

(2) Turn off the pre-heat

(3) Turn on the pre-heat , and the pre-heat set at 40 degrees Celsius, and the rear- heat setting is 45 degrees Celsius

(1) Mode Setting: Press the mode setting and shift it to middle-heating status, click increase/decrease button to set it at 35 Celsius , and then press "running" button to exit the mode setting.

(2) Mode Setting: Press the mode setting and shift it to pre-heating mode, press "Stop" button to exit the mode setting.

(3) Mode Setting: Press the mode setting and shift it to pre-heating mode, click increase/decrease button to set it at 40 Celsius , and then press "running" button to exit the mode setting. Again, press the mode setting and shift it to pre-heating mode, click increase/decrease button to set it at 45 Celsius and then press "running" button to exit the mode setting.

Attention！

Each time to enter the "Setup Mode" can only set up one mode of heating, cannot set the other heating mode meanwhile. If need to set up more than one mode of heating, such as case 3, respectively, need 2 times to enter the setup mode.

Attention！

Recommended settings for the pre-heating temperature 40 Celsius, 38 Celsius warming platforms, rear heating 45 Celsius. But if the material is too thick it should be appropriate increase setting temperature.

5-2 How to Use-***Printing***

5-2-1 how to feed in/take up media and set starting position.

Feeding In Media:

(1) Make the machine to return to the standby interface, if not on standby, press the

menu button to exit all menus to return to the standby interface.

(2) Hold button to bring the button forward, make it through the printing channel, press ▼ button to make the roller move automatically. Release the button to stop moving the media.

Taking up Media：

(1) Connect to make the machine to return to the standby interface, if not on standby, press the ***menu button***

to exit all menus to return to the standby interface

(2) Hold button to bring the media backward， press ▲ button that will not make the

media “winding”， and have to WIND the media by hand. Release the “button” to stop moving the media.

How to set the starting position：

(1) Use the LCD control panel to set the staring printing point.

Connect to make the machine to return to the standby interface, if not on standby, press the ***menu button***

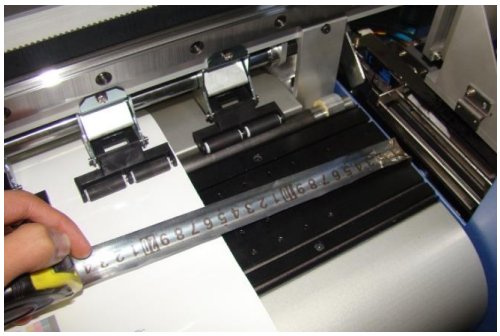
to exit all menus to return to the standby interface

Hold the button to move the carriage to the start printing point,

then press the ***ORIGINAL POINT***

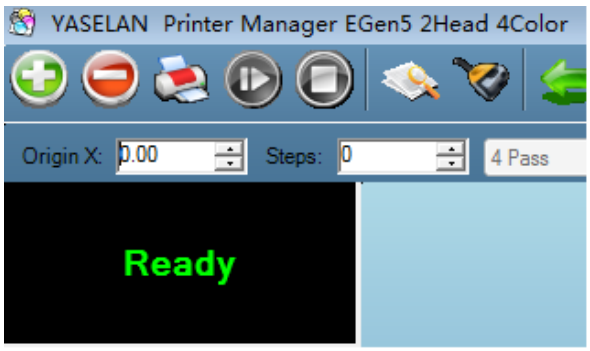
button.

(2) Use the control software to set the starting printing point.



Use the TAPE MEASURE to measure from the right side of platform to the left side.

Read out the number and fill it in the white blank at the edge of the toolbar of software. The unit is CM



5-2-2 How to check the print head according to “test printing bar”

Print head test checks whether all the spray nozzles open, nozzles are in an optimal state. There are two ways to print the test bar:

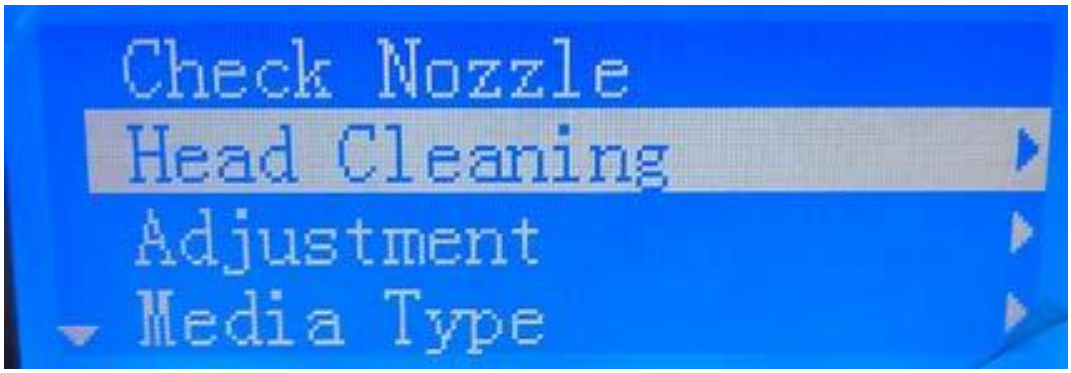
(1) Using the LCD control panel to print.

After setting materials and print starting position and return to the standby interface, if not on standby, press the ***menu button***

to exit all menus to return to the standby interface.

Press the ***Menu Button***

to enter the print head status interface.



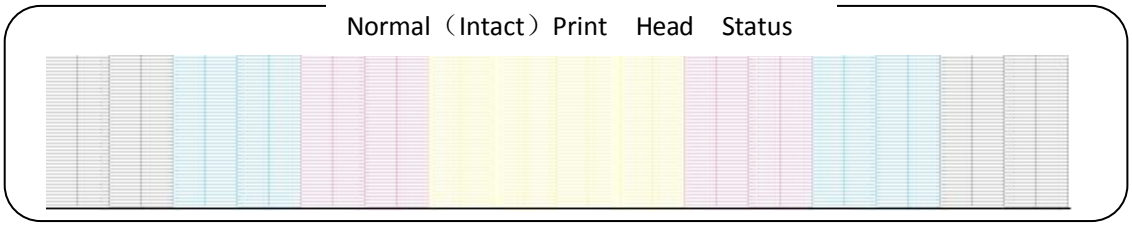
Then Press ***CONFIRM***.

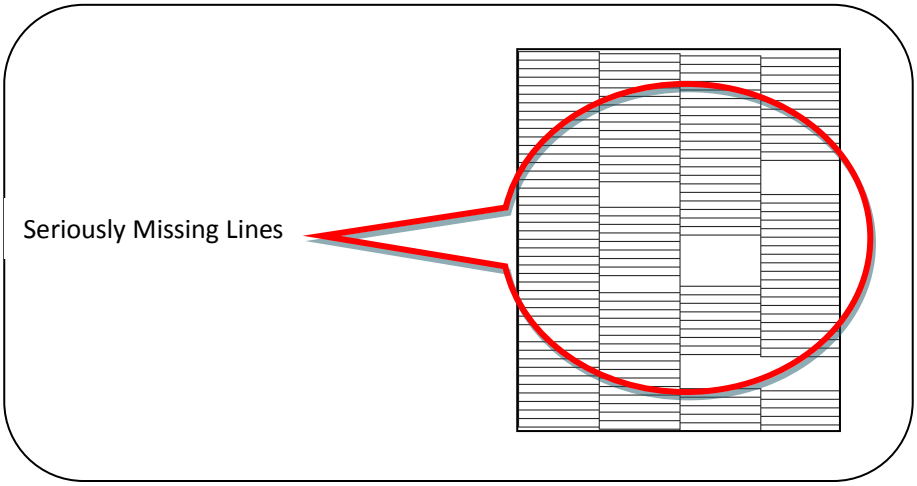
(2) Use CONTROL SOFTWARE to print.

After setting the materials and printing staring position， click the ***TEST BUTTON***

on the toolbar and select the Print Head Status to carry out print head test printing.

Use the eyes to check if the picture missing some lines, or run diagonal lines. If not, start to print the file. If any of the above conditions occur, have to clean the print head and test it again.





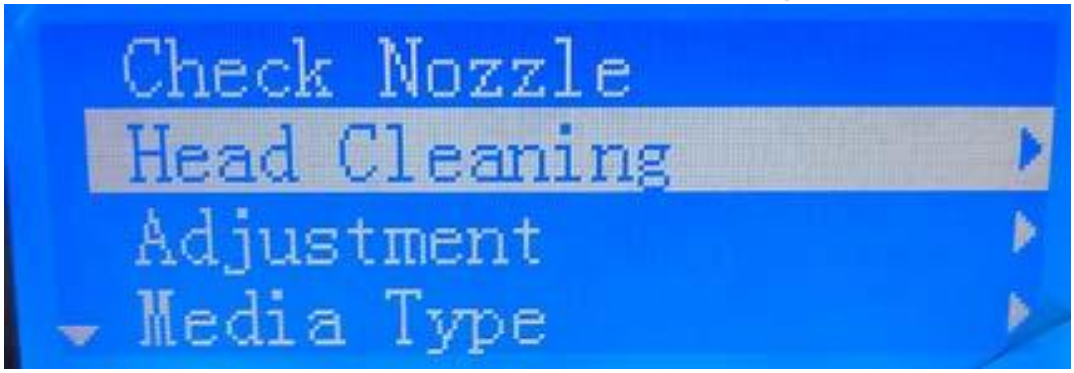
5-2-3 How to auto-clean or manual-clean the print head

Automatic Cleaning

Four modes of automatic cleaning: strong, middle, weak and additional.
All these can be done by LCD control panel or software respectively：

(1) On LCD control panel.
Under standby status, click the ***CLEAN BUTTON***

to begin cleaning.



Click once ***menu button*** will enter the cleaning menu as it is shown in above picture.

Click ▶ the

button, showing the mode of strong, middle, weak and

additional, using

or button to choose mode and then click the ***enter button***.

(2) Software cleaning

On the blank of control software, click button, clean at the original set mode.

Additional：

After strong mode cleaning, still does not work，then you could use additional mode to clean the print head.

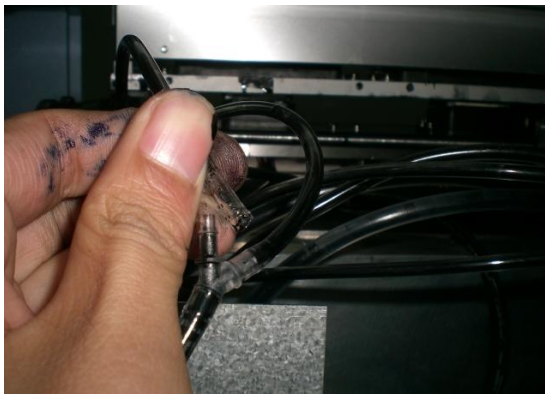
Return to the cleaning interface, if not cleaning interface, click the ◄ button to exit all the menus.

Press *Menu Button* menu once to enter the cleaning menu ,then press ▼ button to enter cleaning mode，click ► button to choose: strong, middle, weak and additional.

Cleaning by hand

When all the cleaning mode does not work, please try to clean it by hand.

(1) Find the matt pad and ink pump piping connections, brush aside the connection, and then connect glass cylinder with ink matt. Let the carriage back to the original starting point, and allow the machine to return to the standby status (refer to the previous section).



(2) Take out the ink from the glass cylinder, about 15-20 ml.

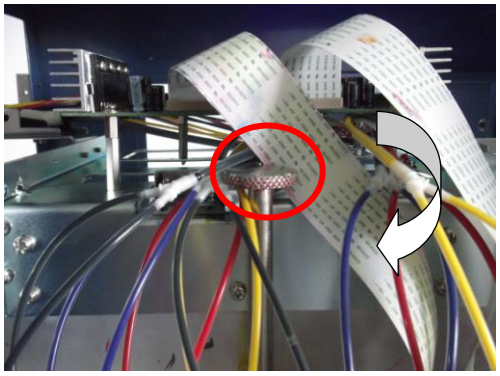
(3) Disconnect the glass cylinder and ink matt， reconnect the ink matt and ink-taking channel to carry out cleaning(Please see the former chapter as reference)

5-2-4 How to adjust the carriage's height

In order to get used to different thickness material, we need to adjust the height of the carriage according to the thickness of the material.

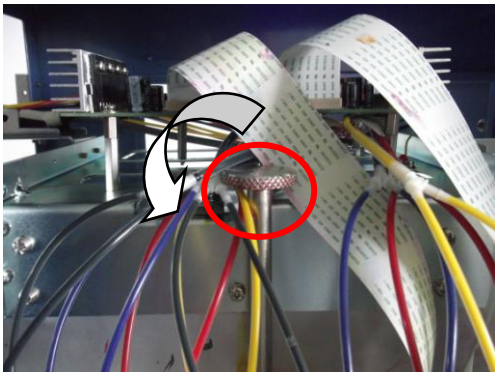
Increase the carriage's height:

Rotate the adjusting nut clockwise
can increase the height of the carriage
(larger distance with the material)



Reduce the carriage's height:

Rotate the adjusting nut counter-clockwise
can reduce the height of the carriage
(smaller distance with the material)



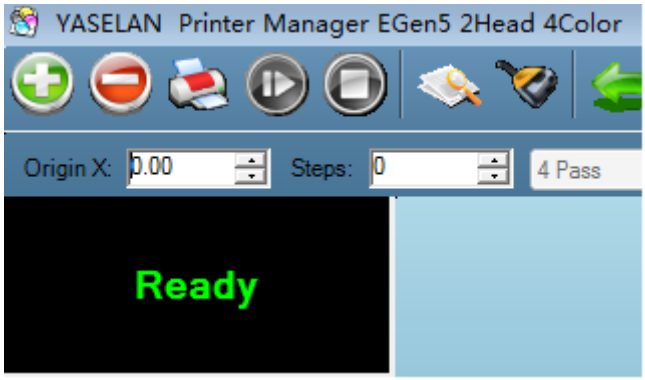
Attention!

The carriage head can adjust between 0mm-5mm. Suggest the print head's height is 1-2mm above the material.

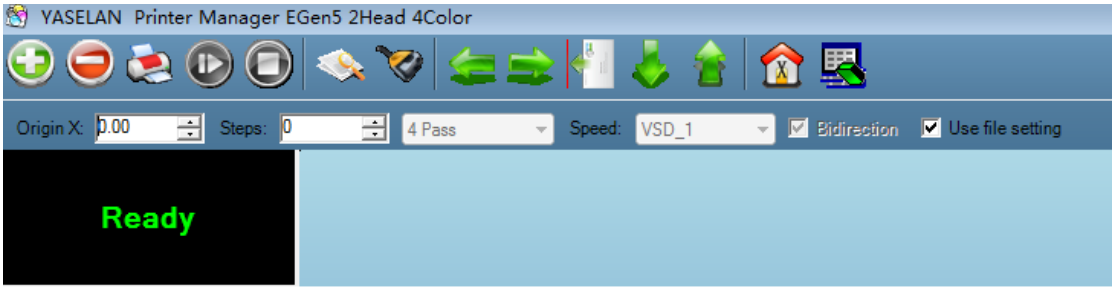
5-2-5 How to begin/pause/stop printing

Begin Printing：

(1) Open the file about to print, run the software. Click the ***running button*** to choose the file. Also can choose the file in RIP software.



(2) Set the printing parameter



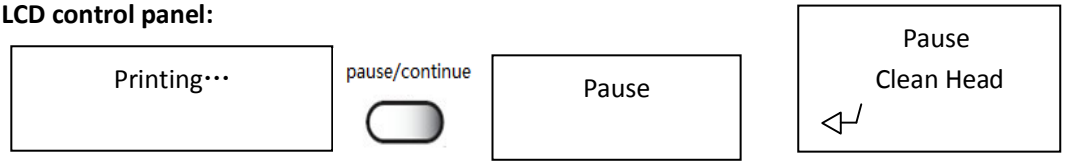
Set the print properties, sets the white bar in the software real-time parameter setting, print speed, print mode (single and dual) and whether to use the file set.

(3) Begin Printing, after confirming the task properties, click OK to start printing

Pause Printing：

Pause Printing can be done by LCD control panel or software respectively.

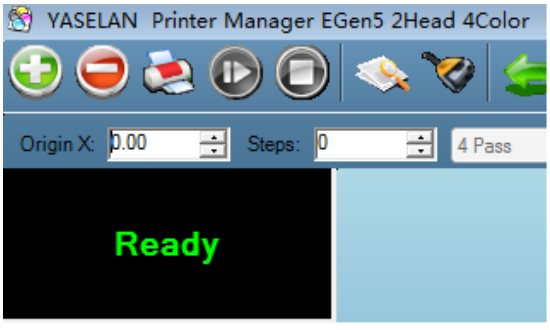
LCD control panel:



During Printing press the pause/resume button once to pause printing that in progress, the LCD will automatically display the Pause option; press the cleaning button to begin the nozzle cleaning.

Control Software:

During printing, click the ***pause button*** to pause printing after which can clean the print head.

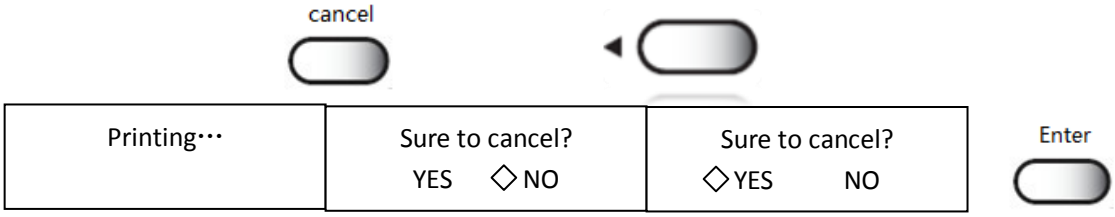


Then click ***continue button*** to resume the previous printing.

Stop Printing：

Stop printing can be done by LCD control panel or software respectively.

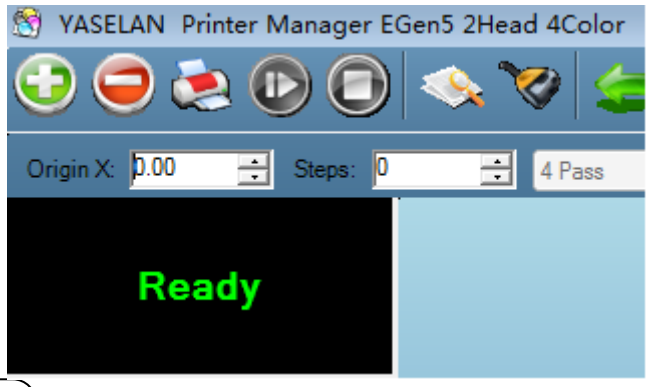
LCD control panel:



During the printing，click the "***cancel button*** "once then click the "***right direction button***" and then click "***YES***" to stop the current printing.

Control Software:

During the printing, click the "***stop***" button on the toolbar and then click the "***enter***" to
stop the current printing.



Attention!

The printing cannot recovery after stop.

5-2-6 Classification of Different Printing Mode

The following will introduce in more detail the different printing mode with different "PASS", productivity every hour and recommended printing mode.

Printing Mode Available

Xunlang VanGogh(Eco-Solvent)Double Print head Printing Mode (Single Head will reduce productivity by 45%)				
Printing Mode	Mode Description	PASS Number	Productivity/H (In Theory)	Materials Recommendations
360DPI	Draft Mode (Average Quality)	4PASS	34 ㎡/H	Exterior lighting light box cloth/PP media (process color images)
360DPI	Fine Draft (Normally Use Fast Printing Mode)	4PASS	24 ㎡/H	Exterior lighting light box cloth/PP paper (process color images)
360DPI	Saturated Fine Draft (Ink is more saturated than fine draft)	4PASS	24 ㎡/H	Exterior lighting light box cloth/PP paper (process color images)
720DPI	Fast&Fine (Fast Mode)	6PASS	21 ㎡/H	Exterior lighting light box cloth paper/PP paper/photo paper/ car body (solid color images)
720DPI	Saturated&Fine (Precision is higher than Fast&Fine)	6PASS	14 ㎡/H	Exterior lighting light box cloth paper/PP paper/photo paper/ car body (solid color images)
720DPI	Fast High Quality (Precision is higher than Fast&Fine)	8PASS	16 ㎡/H	car body post/photo paper/ the lamphouse cloth
720DPI	Saturated High Quality (slow speed high quality precision is higher than fast speed mode)	8PASS	11 ㎡/H	car body post/photo paper/ the lamphouse cloth
720DPI	Super High Quality (For special Material)	12PASS	8 ㎡/H	Lamp light sheet/film/film/and other special materials

Xunlang VanGogh(Water-based)Double-head Printing
(Single head's productivity will reduce by 45%)

Printing Mode	Mode Description	PASS Number	Productivity/H (In Theory)	Materials Recommendations
360DPI	Draft Mode (Average Quality)	4PASS	34 ㎡/H	PP paper (process color images)
360DPI	Fine Draft (Normally Use Fast Printing Mode)	4PASS	24 ㎡/H	PP paper (process color images)
720DPI	Fine Draft (Normally Use Fast Printing Mode)	6PASS	21 ㎡/H	PP paper/photo paper/film (solid color Image)
720DPI	Fast High Quality (Precision is higher than Fast&Fine)	6PASS	14 ㎡/H	PP paper/ film paper/canvas (solid color image)
720DPI	Fast High Quality (Precision is higher than Fast&Fine)	8PASS	16 ㎡/H	Photo paper/external lamp/film
720DPI	Super High Quality (For special Material)	12PASS	8 ㎡/H	Internal lamp/film/film/other special material

5-2-7 How to Take Up the Media

(1) When put the file that about to be printed into the taking up system, use 3 three sticky notes(Car stickers or PP gum) Stick the picture on the Media Tube's left, middle and right.

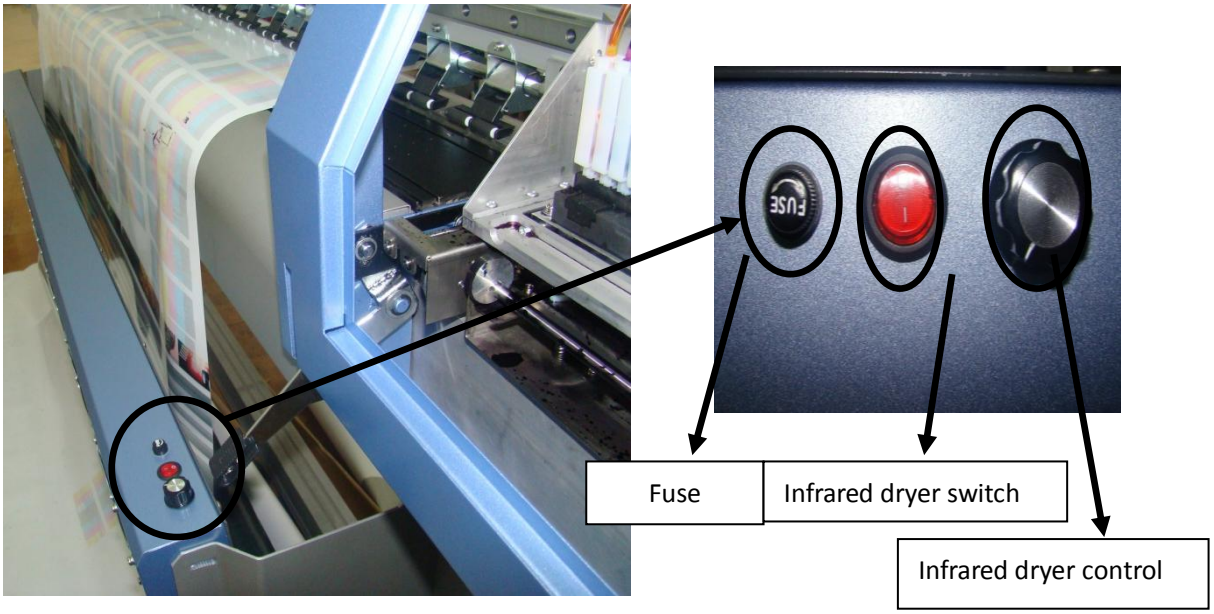
(2) According tension of the material, adjust the taking up media's torque and speed (see the next section for details)

5-2-8 How to Use the Dying System

Drying device made up of infrared heating and fan, through the cartridge fuses for protection.

Warning!

- Do not let the children get close to the machine or unscrew the fuse tube caps.
- When the dryer work, do not put your hand into the gap between the dryer and material, otherwise it may cause burns.



(1) Connect the power supply

Attention!

Dryer Max 800W, correspond to the provided power supply.

(2) Open switch, switch to 1.

(3) Adjust infrared heating temperature, by adjusting knob to change the infrared heating, clockwise to increase, counterclockwise to decrease.

Warning ！

If you need to replace the fuse tubes, please turn to professionals for a replacement, If replace on your own, please disconnect the dryer plug.

5-2-9 How to Protect the Print Head

Water-based Machine and Eco-solvent Machine have different ways for protection.

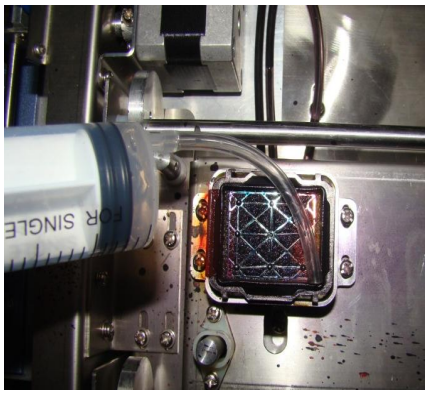
Water-based Machine

Under the standby condition of LCD control Panel， Click Enter “***CONFIRM BUTTON***”.

Eco-Solvent Machine

Under the standby condition of LCD control panel,

Click ◀ to move the carriage out of the head-protective plate， pour some cleaning liquid into the glass cylinder,
and click Enter Button for protection

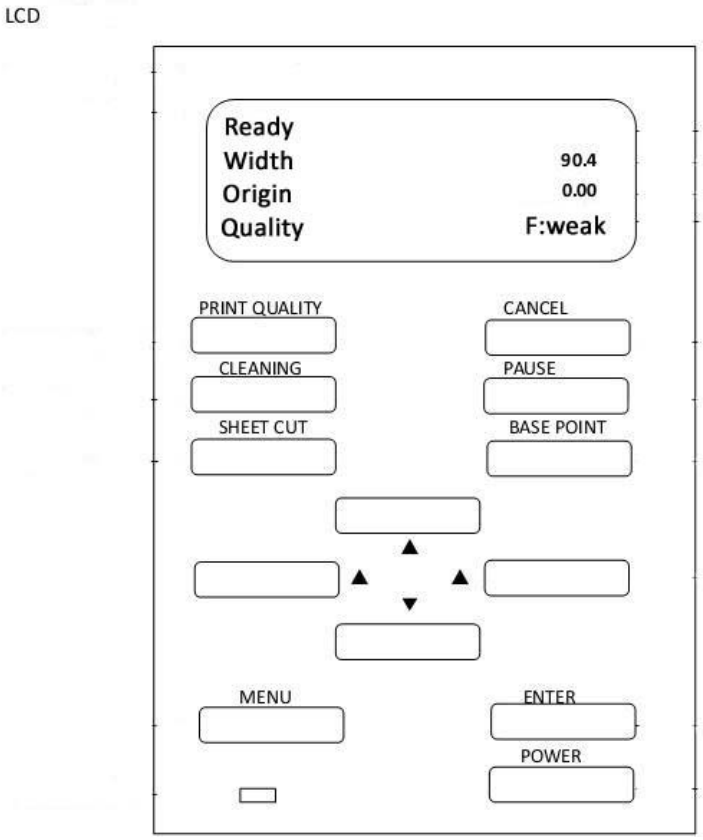


Attention!

The maintenance is limited to maintenance before off-work every day. If long time (more than 2 days) do not use the machine (the machine is off), the maintenance see 7-7.

5-3 How to Use--*the LCD Control Panel*

5-3-1 LCD control panel layout



Attention!

If some of the features of software settings and control panel settings overlay, is subject to the last settings. For example, white edge 200 was set in the software, and then in Control Panel, set the White side is 300, the final print will print 300 from the white.

5-3-2 Press Buttons' Instructions

Buttons do not need to attached, if the display shows an error, all key is invalid.

: Long press this button to control the carriage moving, move to the

destination, release the button, and carriage stops immediately; If the mode has already entered menu, then it would be return and enter menu.

：After entering the menu, use the button UP or Down to control the "forward or back" of the material.

Origin Point

：After connecting the machine and press ◄ to move the carriage to a specified location, and then press this button to set starting printing point.

Cutting Paper

：After connecting the machine and under non-menu setting mode, （Currently Useless）

Cleaning

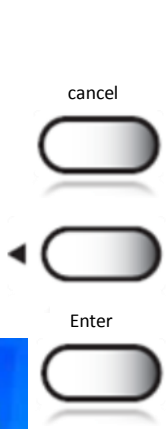
：After connecting the machine and under non-menu setting and printing mode, press the CLEANING button could carry out the cleaning. For more details, please refer to the tree-map for menu structure

Pause/Continue

:During printing， when the lines break, can press this button to pause the printing, then clean the print head after which press the button again to resume the printing.

cancel

：you can click this button to cancel the printing process. Afterwards, you will see a dialog box with 2 options: *YES* and *NO*. Choose *YES* to stop the printing. Choose *NO* to go back to standby status.



: click it to affirm and save the alteration.

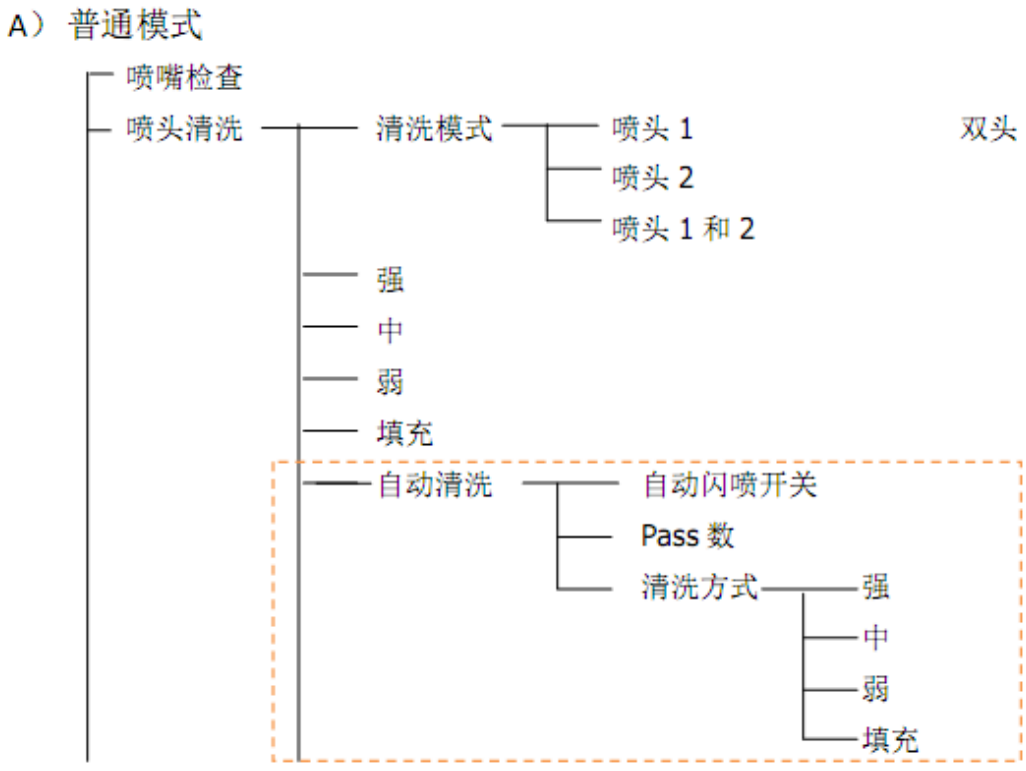
Menu

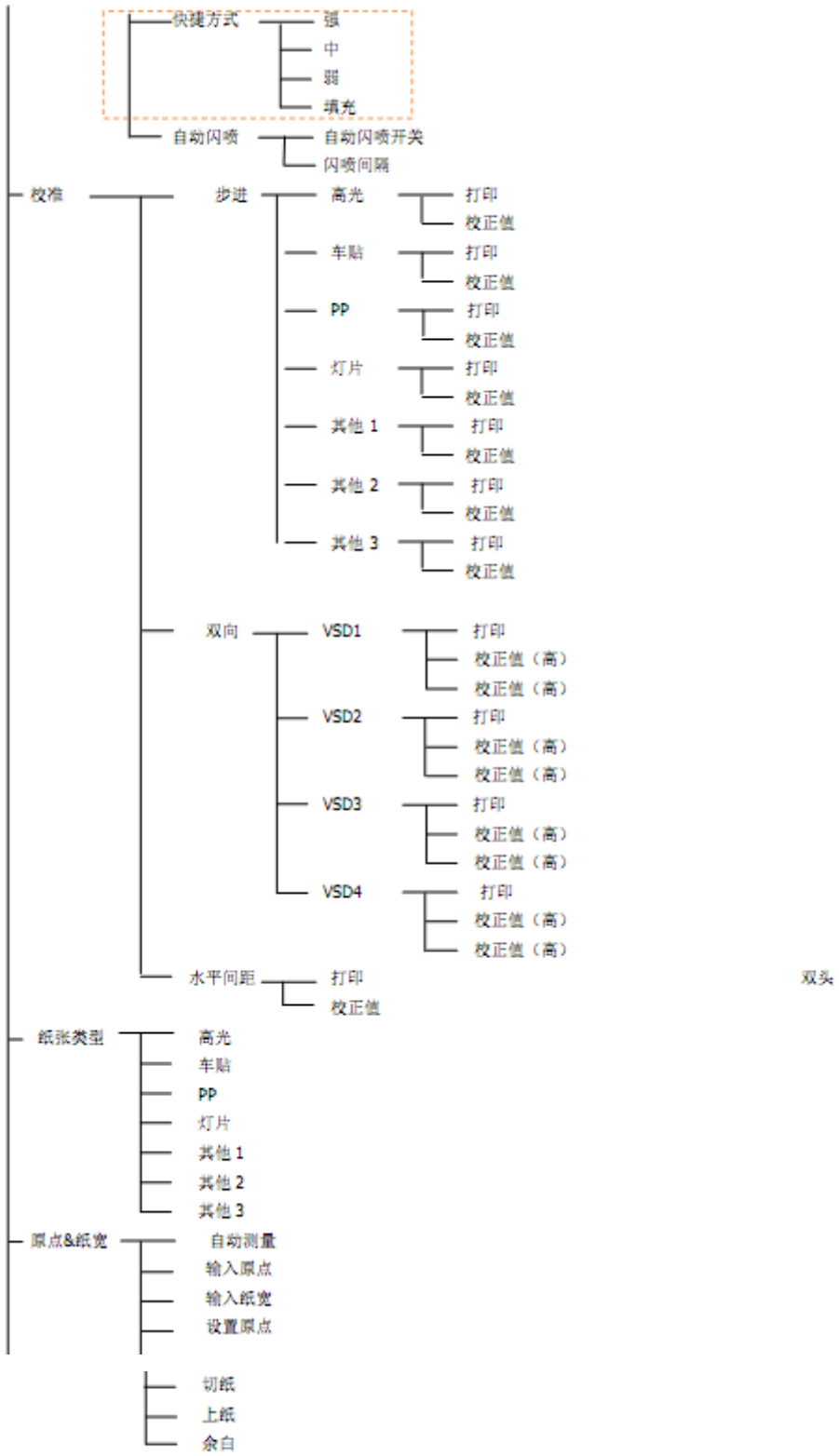
：you can set some parameters by clicking this button. It has the same function as the setting in the software. Both the machine and software setting take the last setting data for reference.

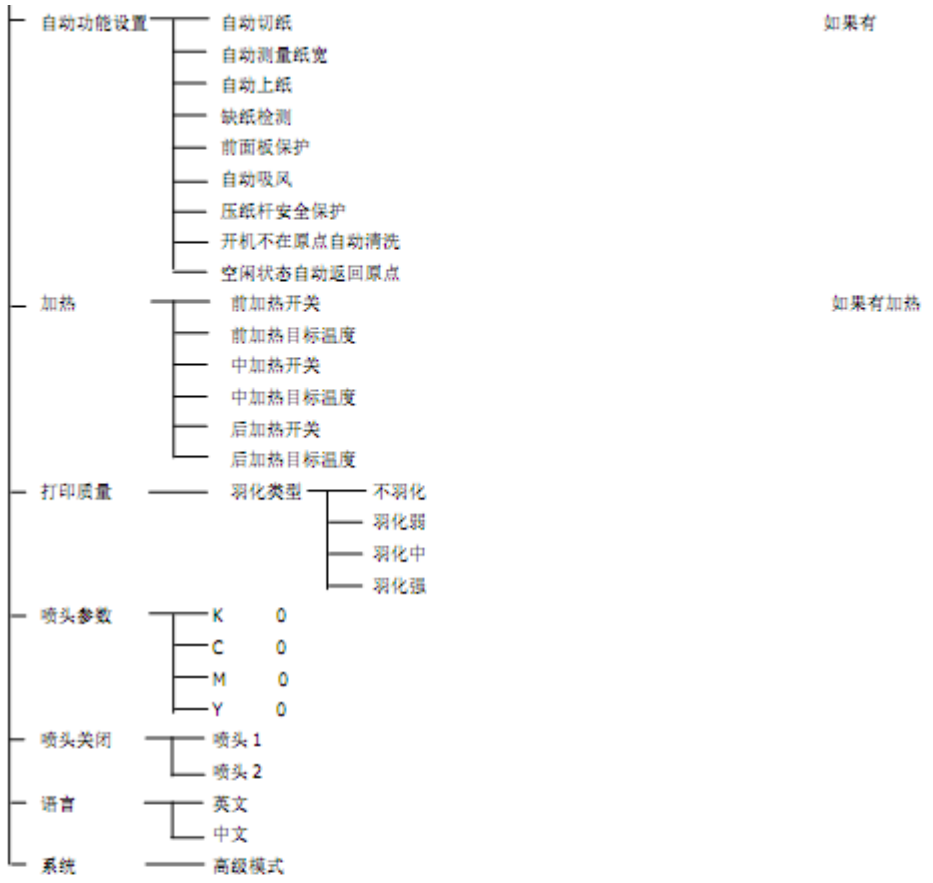
For example, firstly, you choose single-direction, high-speed in the software setting, then you choose both-direction, low-speed in the panel of the machine. Finally, the machine will print under low-speed, both-direction.

There show you how to change single-direction printing to both-direction printing. When the machine is standing by, click the *MENU* button and choose *both-direction*, save it and exit. FYI, right button means enter, left button means back to previous menu, up button means rewrite parameter. And after you input the expected parameters, remember to click *Enter* to save and back to previous menu.

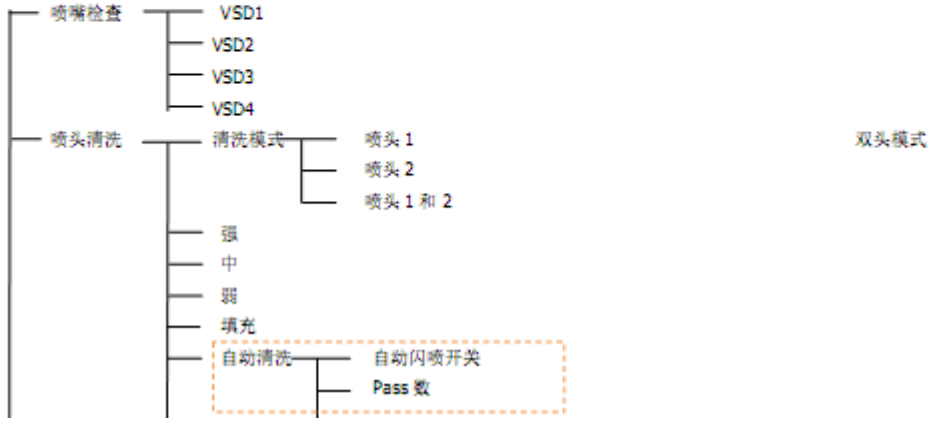
5-3-3 Menu Dendrogram

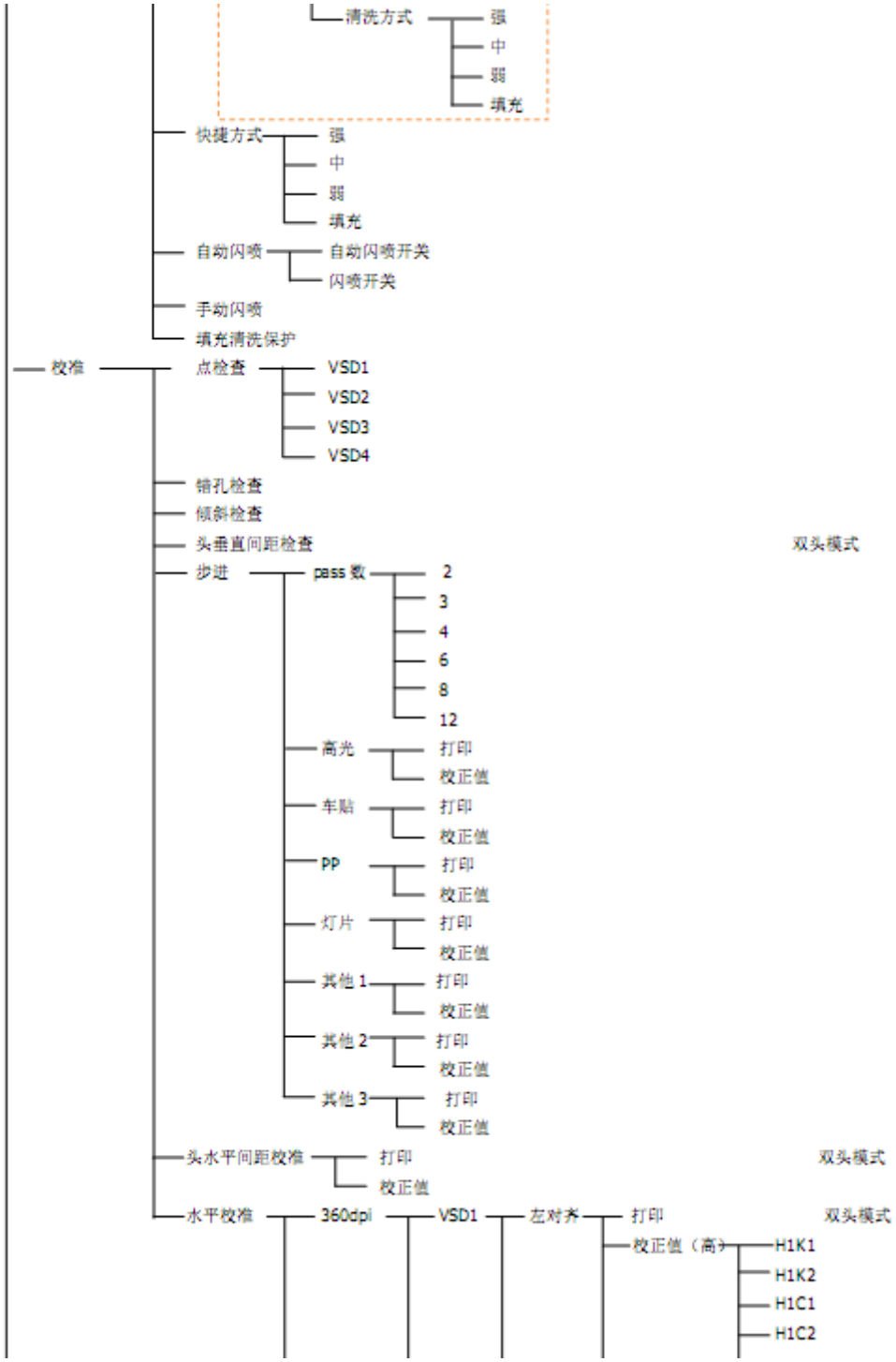


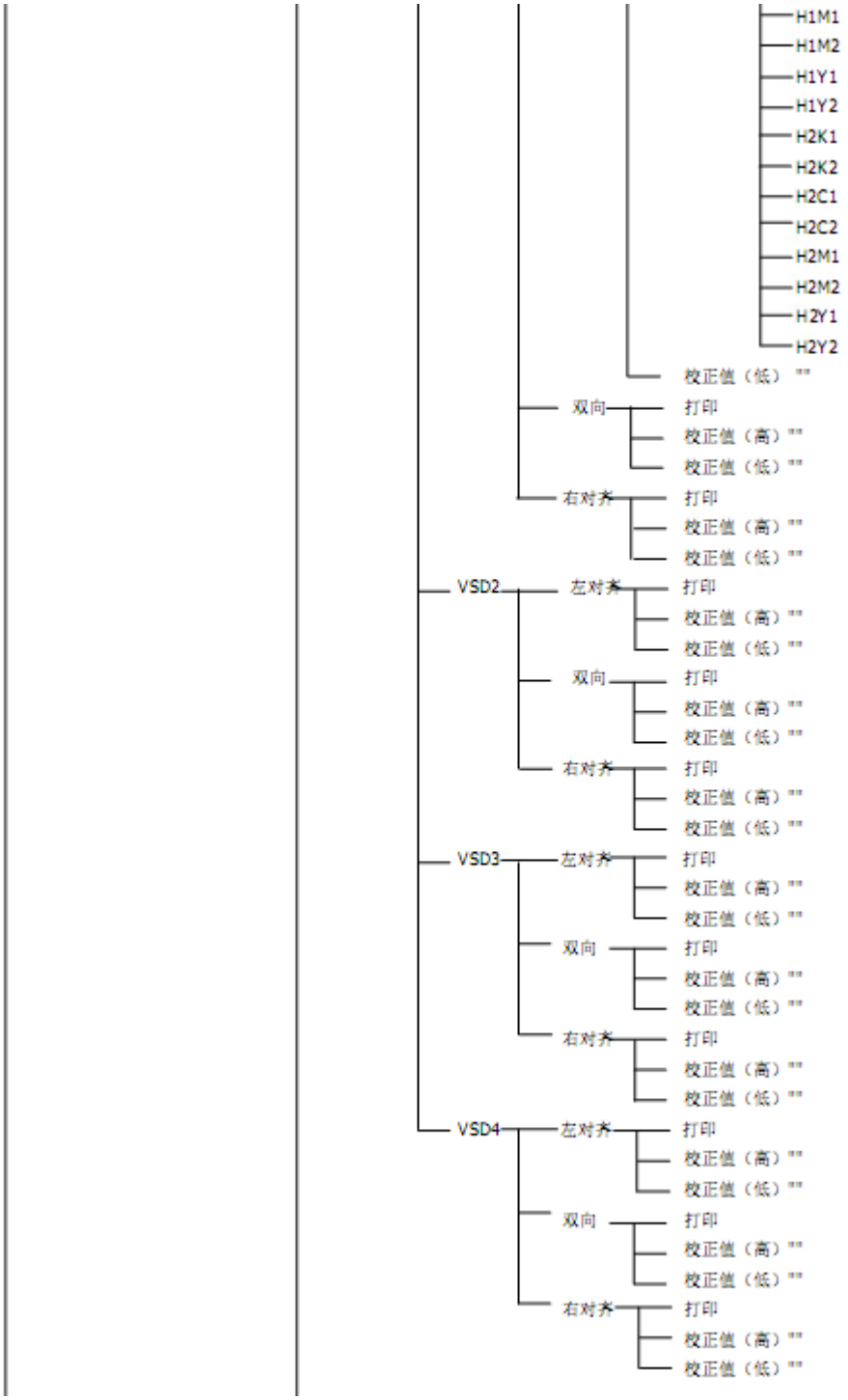

快捷方式
强
中
弱
填充
自动闪喷
自动闪喷开关
闪喷间隔
校准
步进
高光
打印
校正值
车贴
打印
校正值
PP
打印
校正值
灯片
打印
校正值
其他 1
打印
校正值
其他 2
打印
校正值
其他 3
打印
校正值
双向
VSD1
打印
校正值（高）
校正值（高）
VSD2
打印
校正值（高）
校正值（高）
VSD3
打印
校正值（高）
校正值（高）
VSD4
打印
校正值（高）
校正值（高）
水平间距
打印
校正值
双头
纸张类型
高光
车贴
PP
灯片
其他 1
其他 2
其他 3
原点&纸宽
自动测量
输入原点
输入纸宽
设置原点
切纸
上纸
余白

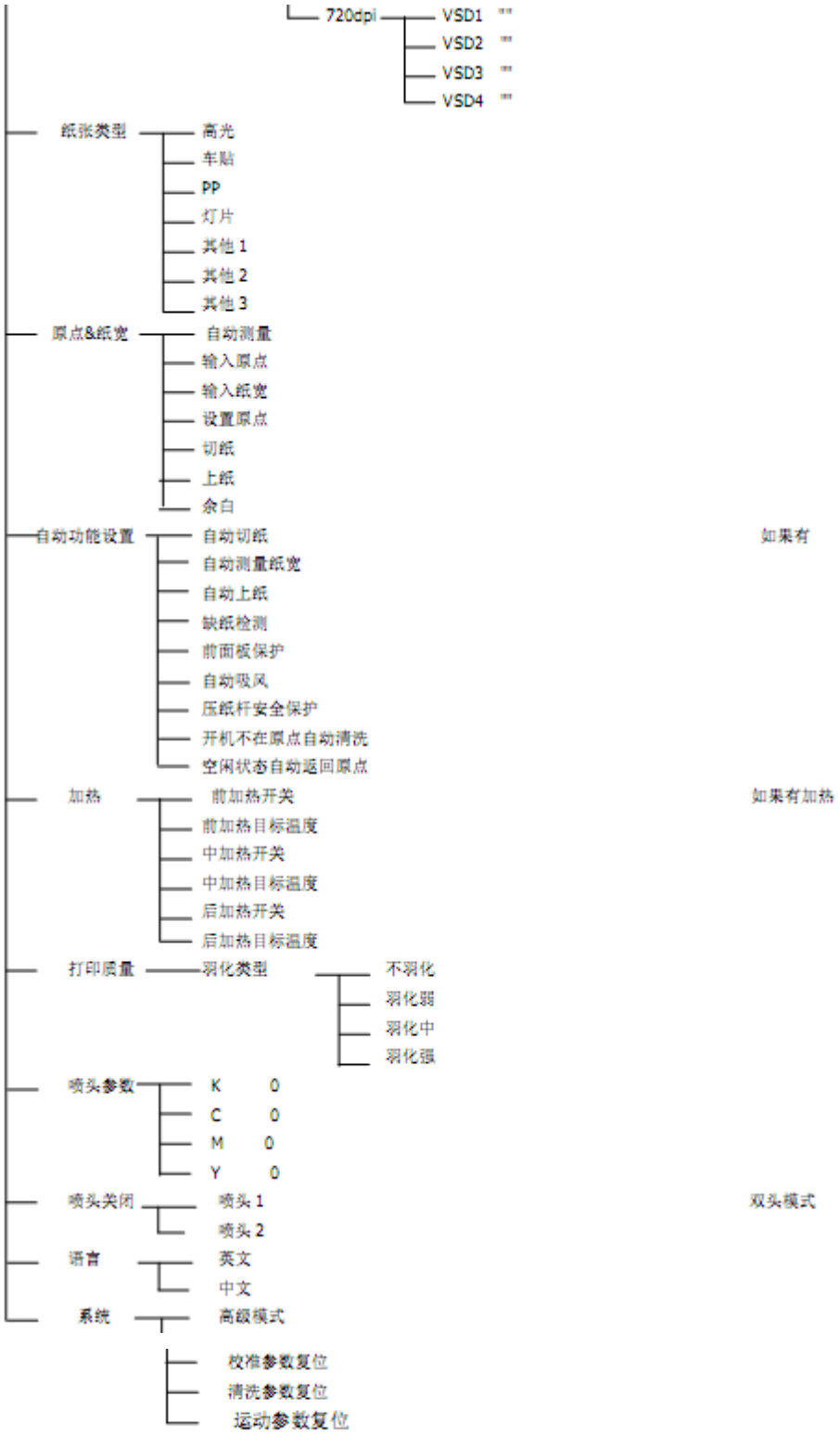

自动功能设置
自动切纸
自动测量纸宽
自动上纸
缺纸检测
前面板保护
自动吸风
压纸杆安全保护
开机不在原点自动清洗
空闲状态自动返回原点
如果有
加热
前加热开关
前加热目标温度
中加热开关
中加热目标温度
后加热开关
后加热目标温度
如果有加热
打印质量
羽化类型
不羽化
羽化弱
羽化中
羽化强
喷头参数
K 0
C 0
M 0
Y 0
喷头关闭
喷头 1
喷头 2
语言
英文
中文
系统
高级模式

高级模式


喷嘴检查
VSD1
VSD2
VSD3
VSD4
喷头清洗
清洗模式
喷头 1
喷头 2
喷头 1 和 2
双头模式
强
中
弱
填充
自动清洗
自动闪喷开关
Pass 数


清洗方式
强
中
弱
填充
快捷方式
强
中
弱
填充
自动闪喷
自动闪喷开关
闪喷开关
手动闪喷
填充清洗保护
校准
点检查
VSD1
VSD2
VSD3
VSD4
错孔检查
倾斜检查
头垂直间距检查
双头模式
步进
pass 数
2
3
4
6
8
12
高光
打印
校正值
车贴
打印
校正值
PP
打印
校正值
灯片
打印
校正值
其他 1
打印
校正值
其他 2
打印
校正值
其他 3
打印
校正值
头水平间距校准
打印
校正值
双头模式
水平校准
360dpi
VSD1
左对齐
打印
双头模式
校正值（高）
H1K1
H1K2
H1C1
H1C2

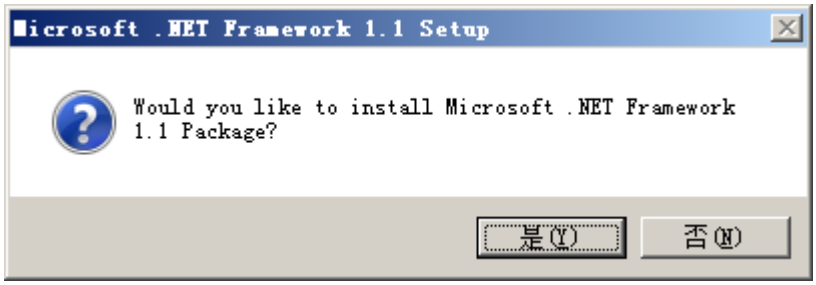

H1M1
H1M2
H1Y1
H1Y2
H2K1
H2K2
H2C1
H2C2
H2M1
H2M2
H2Y1
H2Y2
校正值（低）""
双向
打印
校正值（高）""
校正值（低）""
右对齐
打印
校正值（高）""
校正值（低）""
VSD2
左对齐
打印
校正值（高）""
校正值（低）""
双向
打印
校正值（高）""
校正值（低）""
右对齐
打印
校正值（高）""
校正值（低）""
VSD3
左对齐
打印
校正值（高）""
校正值（低）""
双向
打印
校正值（高）""
校正值（低）""
右对齐
打印
校正值（高）""
校正值（低）""
VSD4
左对齐
打印
校正值（高）""
校正值（低）""
双向
打印
校正值（高）""
校正值（低）""
右对齐
打印
校正值（高）""
校正值（低）""


720dpi
VSD1 ""
VSD2 ""
VSD3 ""
VSD4 ""
纸张类型
高光
车贴
PP
灯片
其他 1
其他 2
其他 3
原点&纸宽
自动测量
输入原点
输入纸宽
设置原点
切纸
上纸
余白
自动功能设置
自动切纸
如果有
自动测量纸宽
自动上纸
缺纸检测
前面板保护
自动吸风
压纸杆安全保护
开机不在原点自动清洗
空闲状态自动返回原点
加热
前加热开关
如果有加热
前加热目标温度
中加热开关
中加热目标温度
后加热开关
后加热目标温度
打印质量
羽化类型
不羽化
羽化弱
羽化中
羽化强
喷头参数
K 0
C 0
M 0
Y 0
喷头关闭
喷头 1
双头模式
喷头 2
语言
英文
中文
系统
高级模式
校准参数复位
清洗参数复位
运动参数复位

6 How to Use the Software

6-1 Install the Software

Pick up the CD of Xunlang printing control software and insert to the computer.
Firstly, find the file named “dotnetfx”. Double click it and you will see dialog box below:



Click “yes”, and you will see dialog box below.

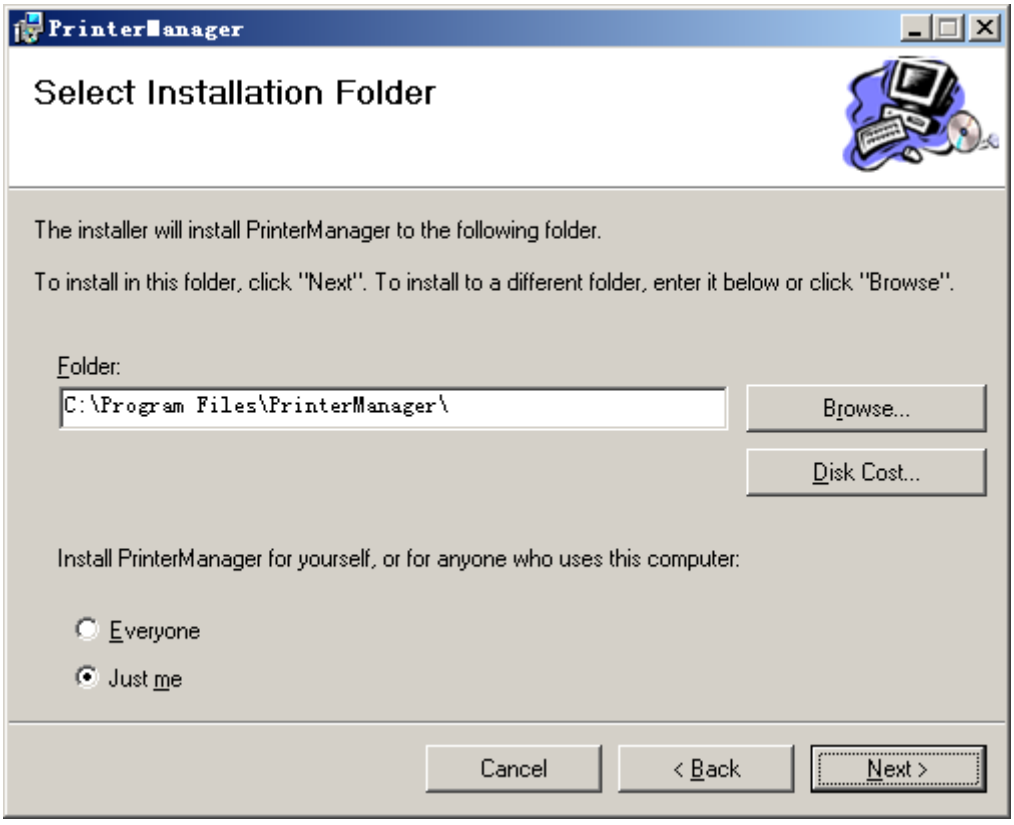
Microsoft .NET Framework 1.1 Setup
License Agreement
(A copy of this license is available for printing at http://go.microsoft.com/fwlink/?LinkId=12283)
SUPPLEMENTAL END USER LICENSE AGREEMENT FOR
I have read, understood and agree to the terms of the End User License Agreement and so signify by clicking "I agree" and proceeding to use this product.
I agree
I do not agree
Install
Cancel

Then click “I agree” and “install” to start the installation.
Finally, click “OK” to finish the procedure.

Open the “release” disk, double click the icon ”setup.exe”. You will see dialog box below:

PrinterManager
Welcome to the PrinterManager Setup Wizard
The installer will guide you through the steps required to install PrinterManager on your computer.
WARNING: This computer program is protected by copyright law and international treaties. Unauthorized duplication or distribution of this program, or any portion of it, may result in severe civil or criminal penalties, and will be prosecuted to the maximum extent possible under the law.
Cancel
< Back
Next >

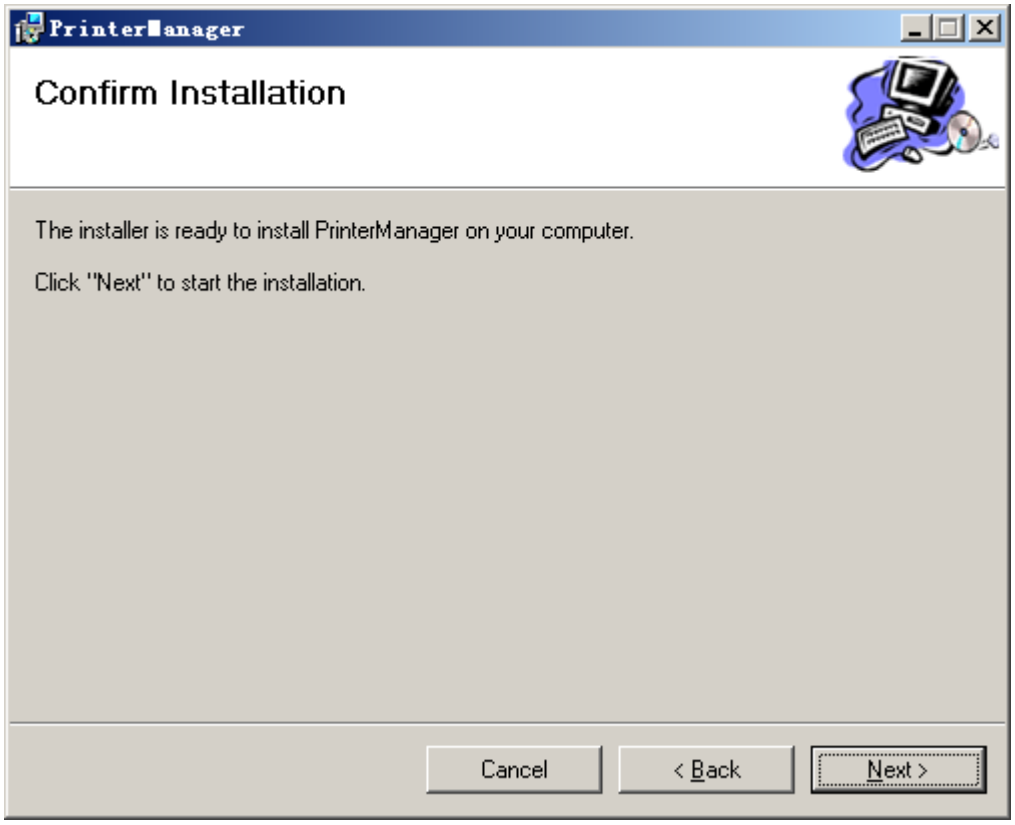
Click “Next”:


PrinterManager
Select Installation Folder
The installer will install PrinterManager to the following folder.
To install in this folder, click "Next". To install to a different folder, enter it below or click "Browse".
Folder:
C:\Program Files\PrinterManager\
Browse...
Disk Cost...
Install PrinterManager for yourself, or for anyone who uses this computer:
Everyone
Just me
Cancel
< Back
Next >

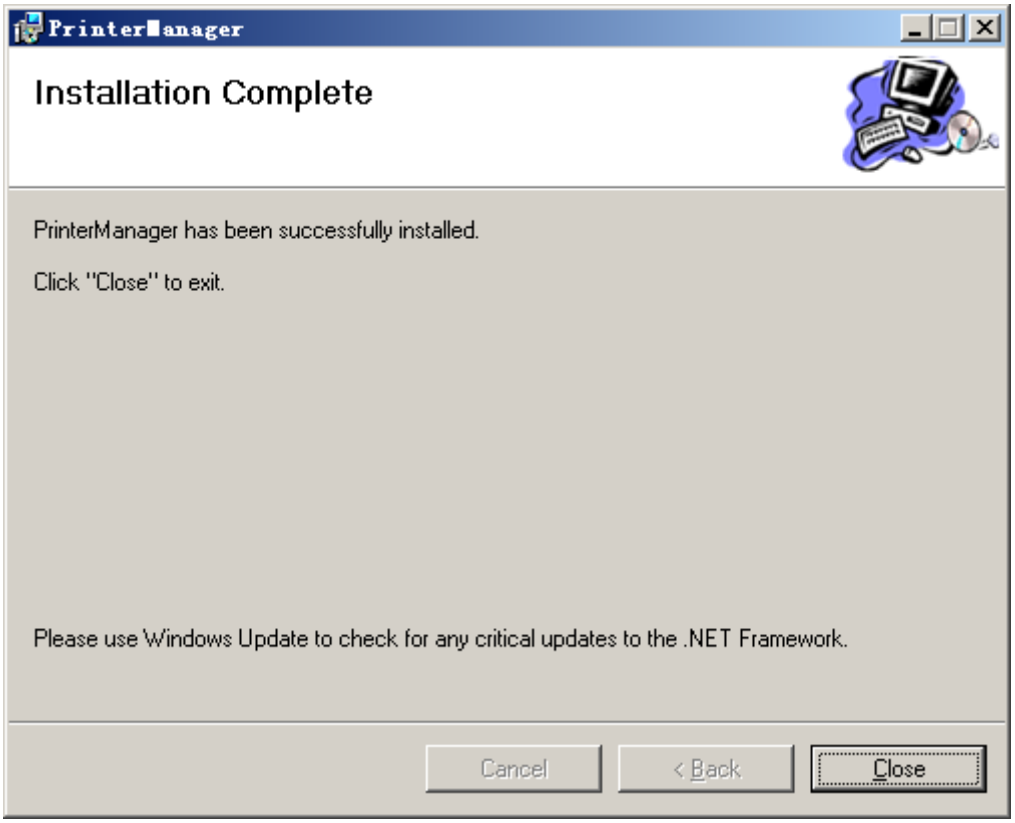
Choose the installation disk, the default installation disk is C\Program Files\PrintManager. If you want to install it in another place, click “view” and choose the disk you like. Then click “next step”.

Caution！

We usually suggest customers to install the software in the default disk: C\Program Files\PrintManager. As in other disk, maybe it will be deleted carelessly or there may be some unexpected issues.


PrinterManager
Confirm Installation
The installer is ready to install PrinterManager on your computer.
Click "Next" to start the installation.
Cancel
< Back
Next >

Then click “Next” and you will see the dialog box below:



Click “Close”.

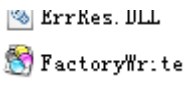
The installation is accomplished.

6-2 Interface Description

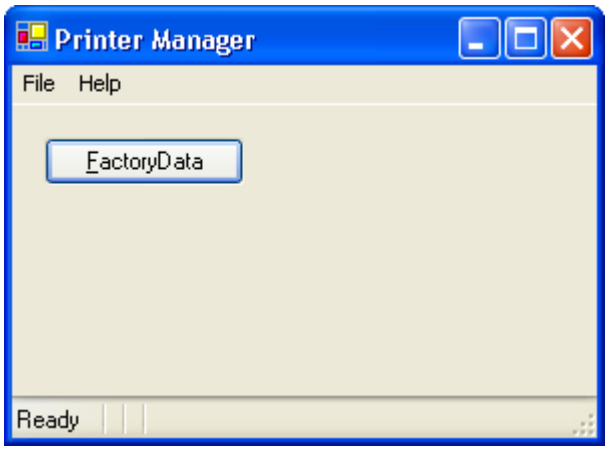
Double click the icon

on the desk, or click “PrintManager” in “Start/Programs”, the window of Printmanager will turn up to you.

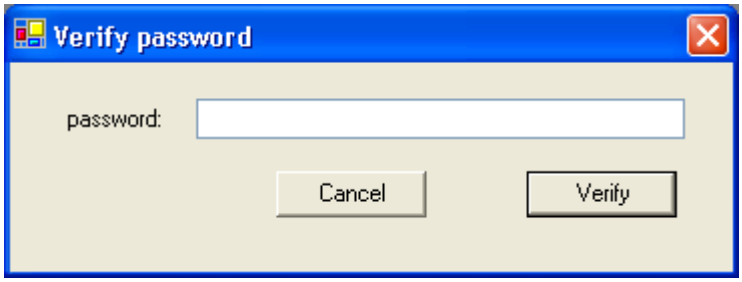
At this moment, you have to process the factory setting. Right click

, there will be a dialog box, double click the 

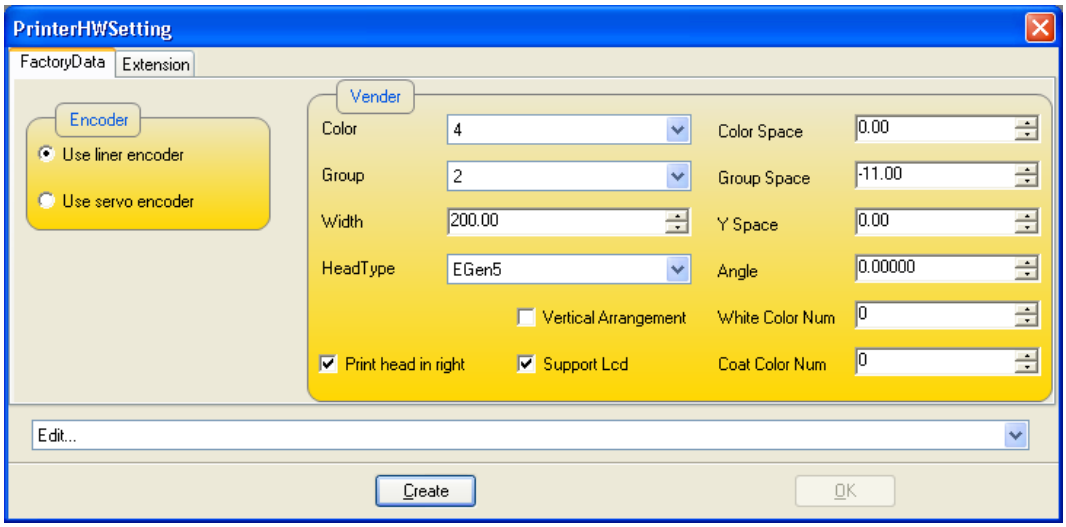
in “attribute/search target”. You will see another dialog box below:



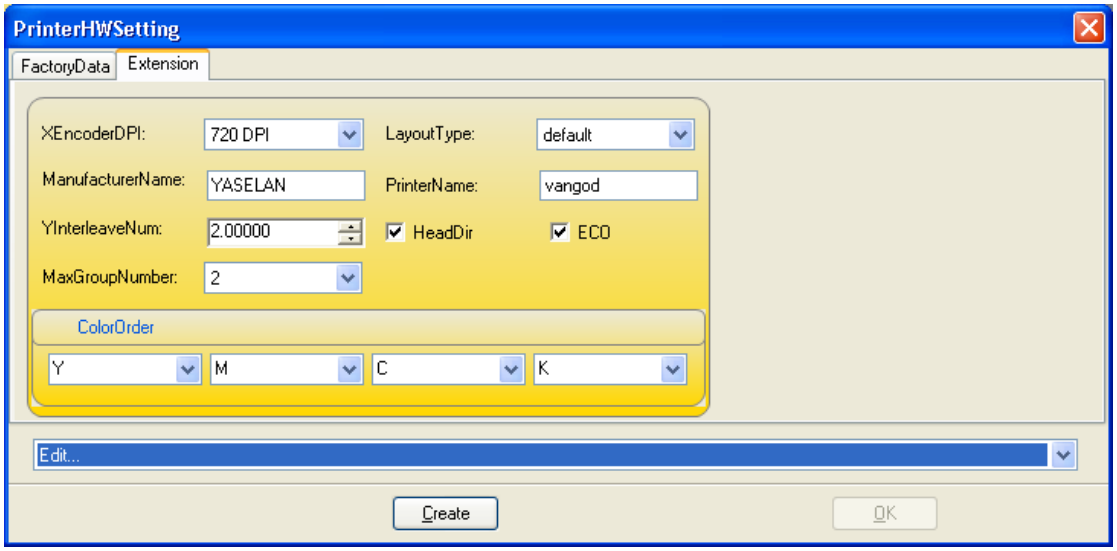
Double click “factoryData”, see below:



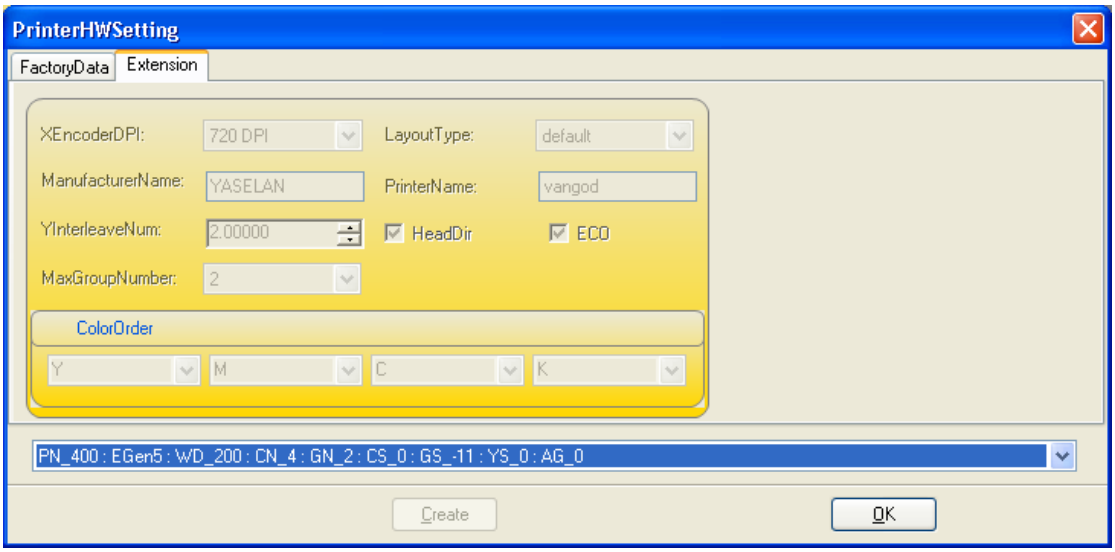
Input password“00210400”, see below:



After finishing the “factory setting”, change to “extension setting”. See dialog box below:



After setting all the parameters, click ”generate”. See dialog box below:



Finally, restart the machine.

Caution !

Choose the correct configuration files, if not, the machine cannot work normally as it should be.

6-2-1 Tool Bar

From left to right:

(1) Add task: Open the RIPed image file in the appointed folder. If the RIPed image file stored in the root directory of disk E, you can just open the disk E and choose the image file you wanted.

Caution!

RIPed image files should not store in disk C. The operation system usually installed in disk C. If its capacity is not enough, it will affect the RIP process speed and result in error report.

(2) Delete task: Delete task which has been done.

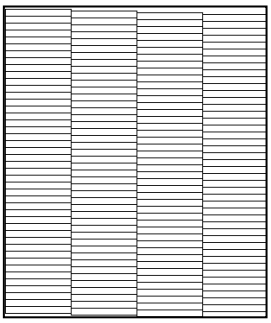
(3) Print: Before printing, check the image file and then click it to start.

(4) Suspend: suspend the current printing process. When you click the icon, its status will change to “continue”. Click it again to restart the printing process

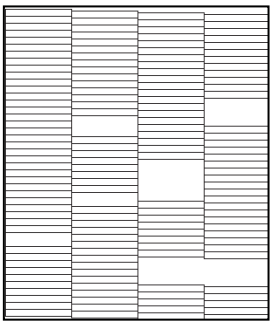
This function is same as that on the led panel.

(5) Stop: stop the current printing process. If you click it, the printing process cannot be restarted again.

(6) Test of nozzles: to print the test image of the nozzle.



OK， we can start printing.



No, you’d better clean the print heads.

(7) Clean: clean the print heads. Click it to let the ink pump start cleaning the heads.

(8) Move towards left: move the carriage to the left. The same as the led panel.

(9) Move towards right: move the carriage to the right. The same as the led panel.

(10) Media back: move the media back. The function is same as the led panel.
(11) Media ahead: move the media ahead. The function is same as the led panel.
(12) Reset: move the carriage to the origin position.

Caution!

If the test image looks like the above second one, it means you have to clean the print heads. And it still the same after several cleaning processes, you'd better contact the local distributor.

6-3 Print Head Calibration

This paragraph will discuss the calibration process in detail.

6-3-1 Adjustment Steps

1. Print the head testing bar to check if the ink drop is correct. ***Menu→head test→yes.***

Or ***Senior menu model→head test→vsd1→yes.*** In the senior model, there are 4 different VSD model and test images. And the color is different. If there are fitful blocks or vacancy, the head is jammed. You should clean it until its printing status reaches the best.

Caution!

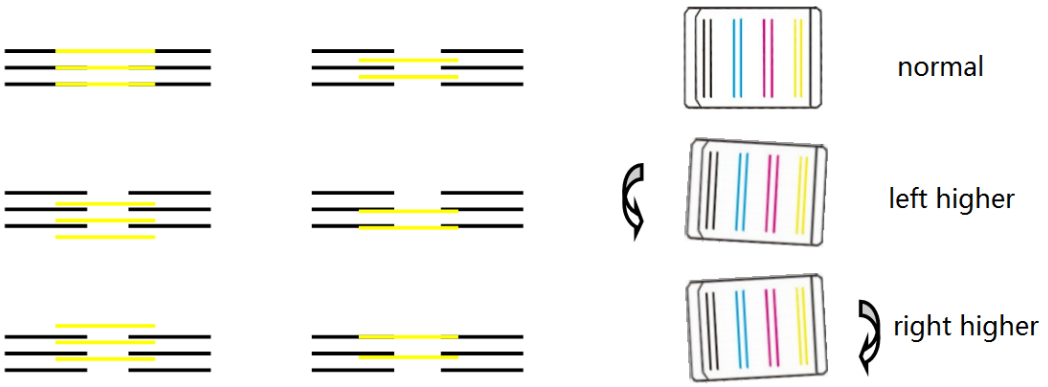
Before calibrating, check the heads' status. If it's not good, clean it until its best status comes up.

2. There are 2 aspects of calibration: hardware calibrating and software calibrating.
For hardware calibrating, there are 2 major procedures, including nozzle discrepancy test and incline test. We can adjust the print head holder to align the print head's left-right incline and front-back level, in order to assure the head's level and parallel towards the printing platform.
Nozzle discrepancy test: ***Senior menu model→calibration→nozzle discrepancy test→yes***.

Interleave Chink

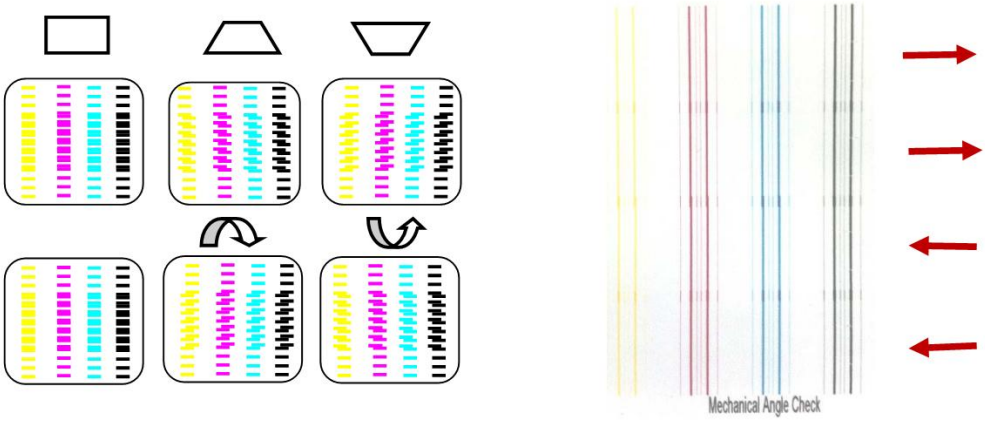
See the picture above, when you get the test image, check it with 50-100times magnifier. The basic color is black. The location relation between black and other colors: at the same level and contrast to K, the first group and second group of nozzles' position. It also shows the relative position of the 2 group of nozzles in same color. As the K is far away from Y, it's apparent if there

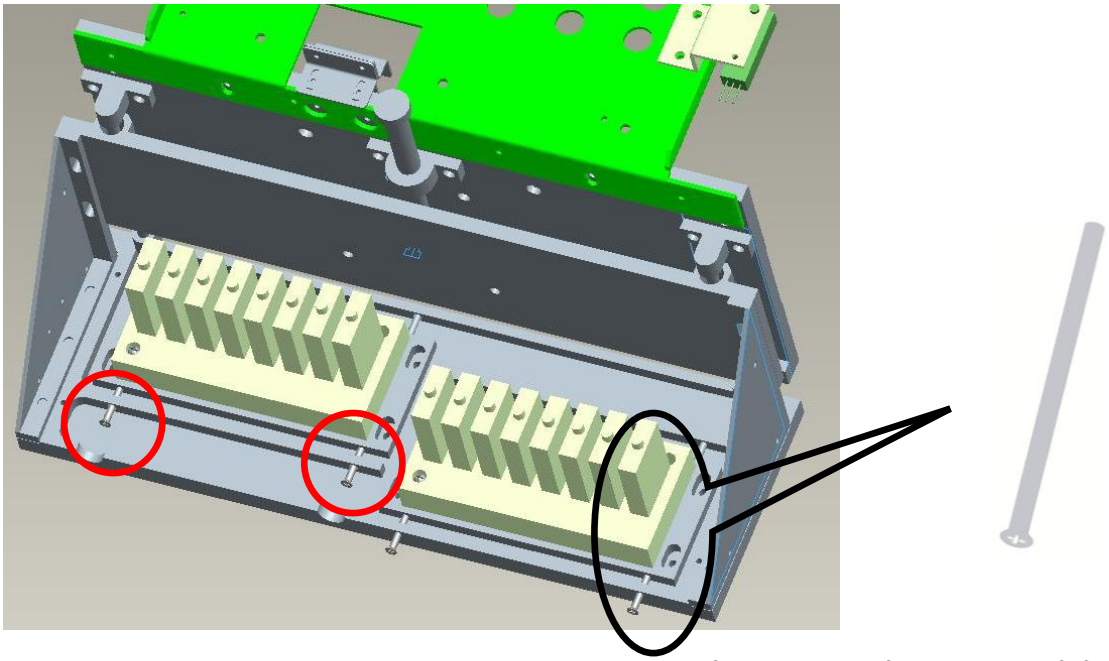
is nozzle discrepancy. So you'd better check the color K and Y. If both are 3 straight lines, they should be overlapped. But if K has 3 lines and Y has 2 lines, they should be crossed to each other.



FYI: the image is opposite in the magnifier. If the test image looks like the above "normal" one, you can start printing process. Or you have to adjust the print head until it is "normal".
Sometimes, the head may have problem, such as the 2 group of nozzles in same color is incompatible. Of course you cannot get a good test image.
If the machine has 2 heads, there are 2 test images. You can adjust the 2 heads separately.

Incline test: ***senior menu model→calibration→incline test→Enter***.
After adjusting the level of the head(left-right incline), you cannot assure the surface of head is horizontal. Then you can check it by click ***incline test*** menu.



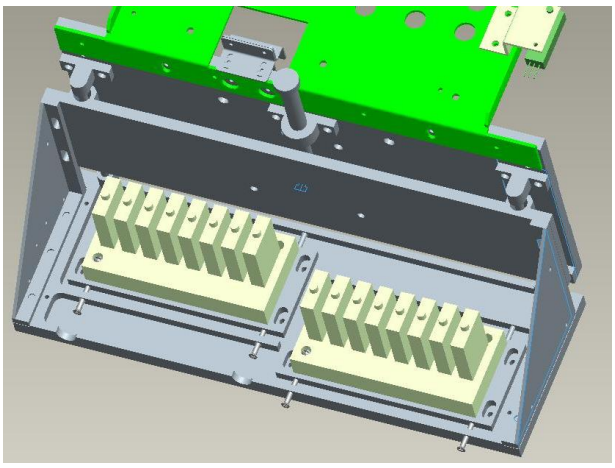


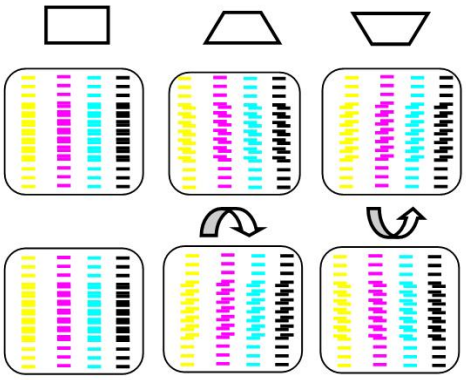
Caution: the test bar printing process is divided to 2 step, the first is printing from right to left for 2 times, then from left to right for 2 times. If the wide line is not clear enough, you can check the slim line, which is formed by dots and is easy to view. If the head's inner is higher than the exterior, you will get test bar as the second picture above. Otherwise, you will get the third picture above. Besides, if the test bars from both direction is the same, you'd better not only check whether the media is vertical to the guide rail, but also check whether the platform is horizontal. At this moment, you can print the test bar in another place of the media to check whether the test bar looks the same.

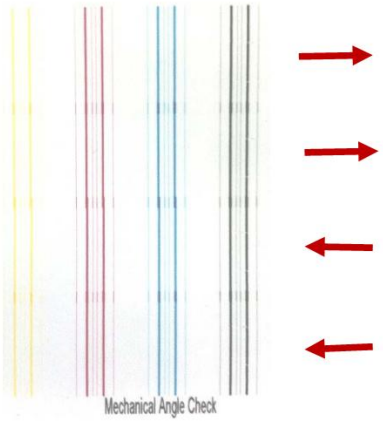
If the malposition of the 2 directions is too much, you can adjust the both-direction calibration and carefully visual checking is unnecessary.

Calibrate the verticality of the head by adjusting the screws. See picture below.
Procedure:

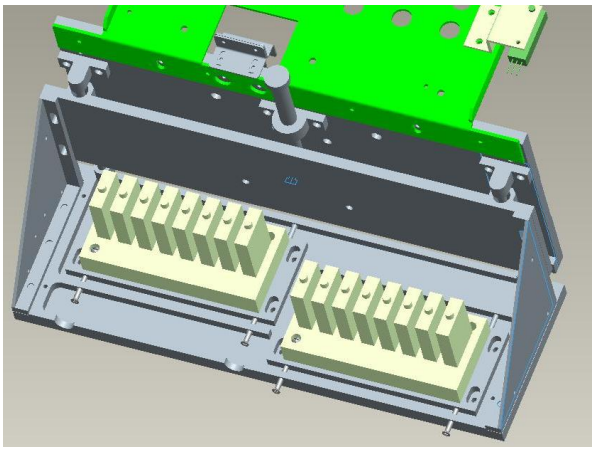
(1) Calibrating the individual verticality of the 2 heads. The test bar should looks like the picture below.







(2) Then adjust the spacing of the two heads.
Only need to adjust one head. And meantime, in order to assure the verticality of the head, you have to adjust left-right screw at the same amount.

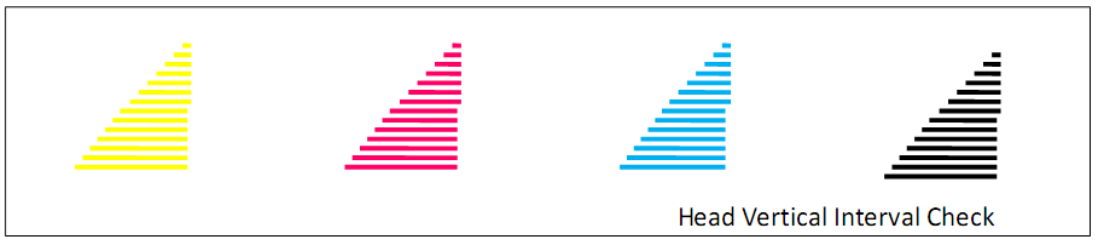


6-3-2 Double heads Spacing Calibration

If you are using 2 heads, you have to implement this calibration. Generally speaking, as the second heads is far away from the guide rail, its printing quality will be inferior than the first head. If the testing result is opposite, you'd better check the installation of the head and the head holder. Sometimes result from the mechanical precision, it's very hard to conform the 2 heads. At that moment, you should assure one head is splendid firstly.

Calibrating of the vertical spacing of the 2 heads: for the machine with one head, the hardware calibration is finished till now. But for 2 heads machine, you have to calibrating the vertical spacing.

Senior menu model→calibration→vertical spacing calibrating→enter. See picture below:



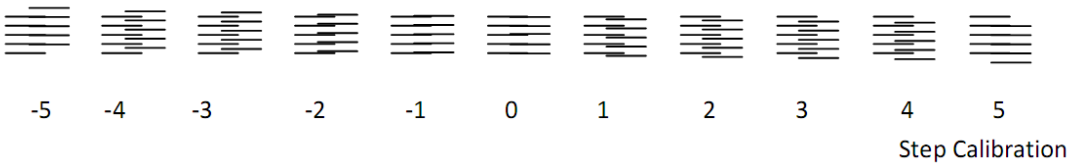
Caution: the triangle above is printed by the first head, the trapezoid below is printed by the

second head. The spacing between the lowest line of the triangle and the top line of the trapezoid is the same as the spacing between the heads' own nozzles. Simply speaking, if you cannot distinguish the limit of the triangle and trapezoid, calibration is unnecessary.
Generally, after malposition and incline calibration, the heads are horizontal. You only have to paralleled move the second head close to the first one.
When you move the second head, there may be left-right incline. At that moment, you have to retest the malposition and recalibrating.

6-3-3 Color Calibrating

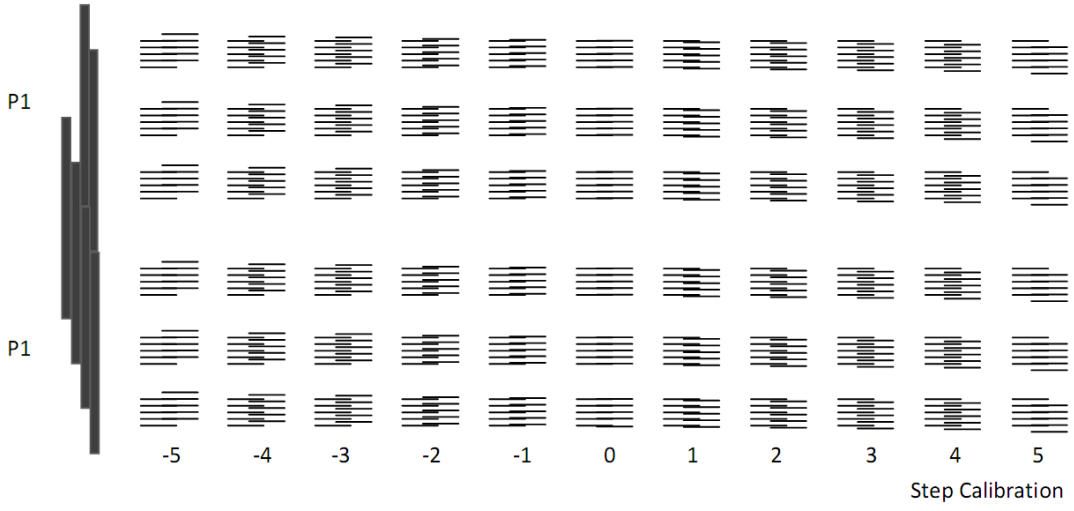
Software adjusting: including stepping, both-direction, left-align, right-align etc.
Stepping adjusting:

1） normal model:
menu→calibration→media→print



This simple operation only print one line. The default stepping is 4 PASS, the same as 1 PASS. Every bar has a number below. Check which one is best and read the number. Then add the number you got to the default number. Finally, input the calculated number. Reach the second place after decimal point.

2）senior model:
senior menu model→calibration->media→choose PASS number→print.



Under senior model, there are different media and PASS number. You'd better adjust the 4 PASS firstly and then 3, 6, 8 or other PASS number for the same media. Different media have different stepping parameter. Before printing, affirm the media is consent to the default media name.

Attention please, under this model, the machine will continuously print 10 circulation. For 4 PASS printing, there are 3 lines. The 1st line is consequent of 1st PASS and 2nd PASS, the 2nd line is consequent of 1st PASS and 3rd PASS. The 3rd line is consequent of 1st PASS and 4th PASS. If the stepping is incorrect, the error of 3rd line is the most apparent. Besides, as there are 10 circulation, the printing process needs a long time. But we can find out stepping error easily and see whether the precision of feeding have periodic variation. For 6 PASS, there are 5 lines and 7 lines for 8 PASS.

The lateral test bar print in color K and M. If there's no physic malposition between the 2 heads, the stepping of these 2 colors will be consistent to each other. You'd better pay attention to the left color blocks of the test bar. If the head is not vertical, there will be spaces in the left color blocks.

You can click the ***cancel*** button to stop printing.

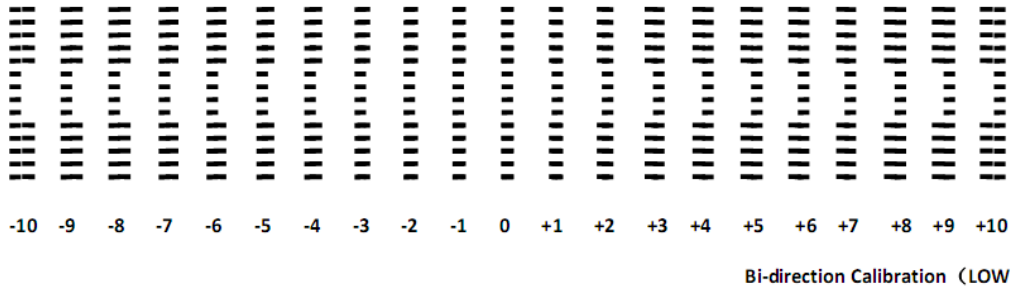
If you feel very difficult to affirm the origin position, check the left one and right one. The origin position is close to the one with less apparent fault. And you can also check it in different media width, as the mechanic precision will be checked at the same time.

Caution: if the difference between the machine's stepping and real printing is very big, check the 1st line firstly. Maybe the data needs a big modification. The machine allows 50% modification every time. When the 1st line origin position is ok, slightly adjust the 3rd line origin position.

The stepping of one head is half of the two head's.

3）both-direction adjustment:

senior menu model→calibration→resolution(360*720)→VSD(1,2,3,4)→both direction→print.

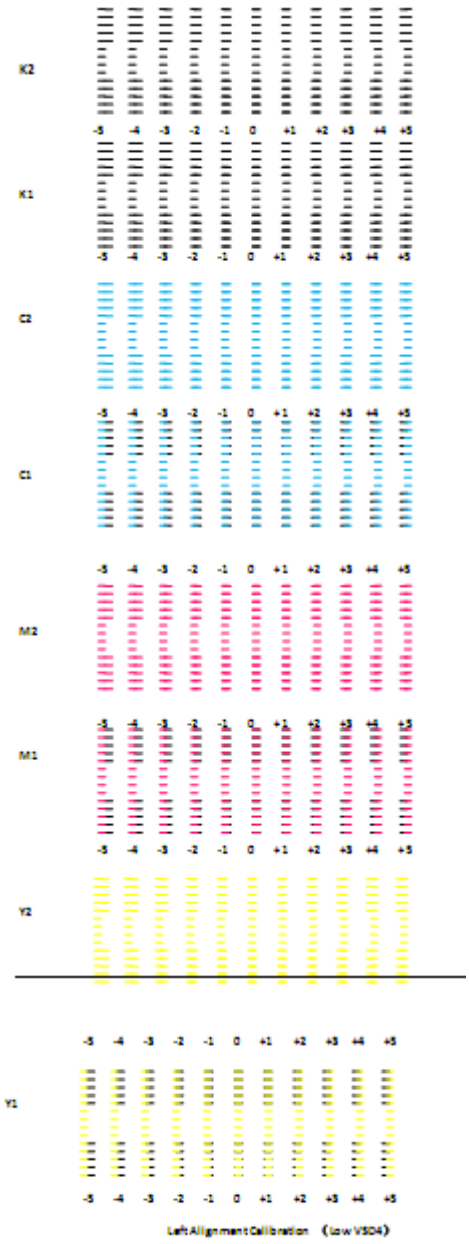


Bi-direction Calibration（LOW VSD3）

Check the test bar, find out which one is the best aligned. Add the data of it to the default, and input to the setting menu. FYI, different resolution and VSD has different parameter, and you have to do adjustment under every model(there are 4 VSD in 360dpi; 4 VSD in 720dpi). If the machine supports high and low grades, you have to adjust it separately. But for machine which has no such function, you only need to adjust high or low parameter.

4）left aligning:

senior menu→calibration→resolution(360*720)→VSD(1,2,3,4)→left aligning→print.



Observe each color's test bar, find out the best one. Add the data below to the default and input to the right place of the parameter setting.

In the picture above, 2 is the opposite group of nozzles of the same color. The first group of K (K1) is the origin of 1. And all the other colors' origin is from K1.
If the left group of nozzle is 1 and right group is 2. There are K1K2，K1K1，C1C2，C1K1，M1M2，M1K1，Y1Y2，Y1K1.

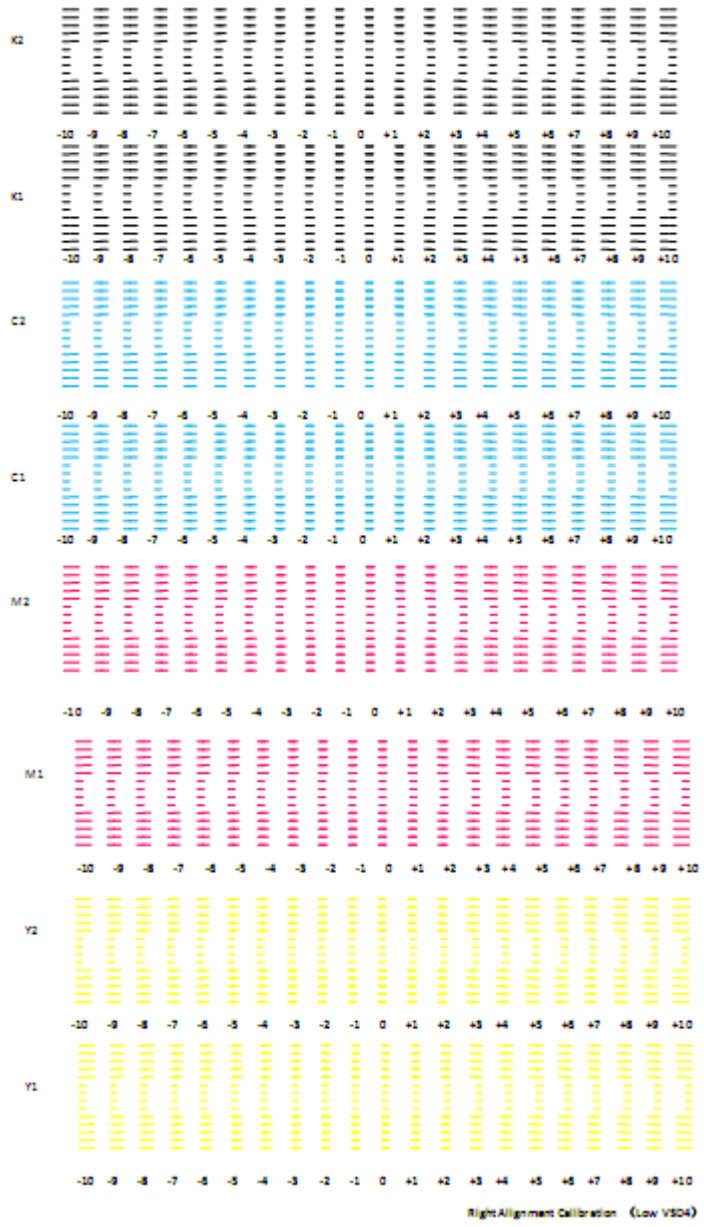
FYI, the 4 different colors are in the same head and 8 groups of nozzles' position is fixed. If the physic position of the head is fixed and under the default parameters, the origin position of the test bar should be consistent. If there is great difference, it means the physic adjustment is not good enough and you have to repeat the malposition test and incline test of the heads.

If the machine has 2 heads, the adjusting principle is same the one head machine's. But the test bar will be double sized(H1K1，H1C1，H1M1， H1Y1). The same color's different position will be consistent to the H1K1, and so does H1C1, H1M1, H1Y1 etc. H1 is the left head when you are facing the machine, and H2 is the right head.

In the test bar, H1K2，H2K2，H1K1，H2K1，H1C2，H2C2，H1C1，H2C1，H1M2，H2M2，H1M1，H2M1， H1Y2， H2Y2， H1Y1, H2Y1, H1K2 is combination of H1K1 and H1K2.

5） right aligning:

senior menu →calibration →resolution(360*720) →VSD(1,2,3,4) →right aligning →print.



In the test bar above, 1 is the result from the left group of nozzles' both-direction printing (K1, C1, M1, Y1). 2 is the result from left group of nozzles print towards left and right group of nozzles print towards right.

If there are 2 heads, the origin is separately from H1K1， H1C1， H1M1， H1Y1. The other nozzles will be consistent to the origin. In the test bar, H1K2，H2K2，H1K1，H2K1，H1C2，H2C2，H1C1，H2C1，H1M2，H2M2，H1M1，H2M1，H1Y2，H2Y2， H1Y1，H2Y1H1K2 are result from H1K1 print towards left and H1K2 print towards right.

No matter it's left aligning or right aligning, both defines 2 grades of basic standard. The first standard is the color itself and the second standard is K. Then, not only the chromatography of different colors but also the relative position of the same color has been adjusted. Especially for machine with 2 heads, it's very useful to improve the quality of pure color block.

As the control software support 360 and 720dpi, and each have 4 different VSD model, and each VSD model has left aligning, right aligning, both-direction, the adjustment has a lot of options. In order to get high-level printing, you'd better adjust all of them one by one.

If you want high quality printing, we seldom use VSD1 and VSD2, so you don't need to adjust them.

Caution!

When calibrating, don't input the data read from the test image. You have to add or subtract on the default data.

After inputting the data, click the "enter" to print test bar, until the 0 position overlap the origin position.

Caution!

In order to get the highest precision, you'd better adjust all the heads to overlap on the 0 position. If not, repeat the chromatically calibrating.

7 Maintenance

In this paragraph, the regular check and maintenance of the user or engineer is discussed.

Caution!

Please observe the regulations in this paragraph, or there may be unexpected destroy to the machine.

7-1 Scheduled Maintenance Guide

Caution!

Don't turn off the machine before adopting protective procedure to the print head. Never shut the machine for more than one week, even though you have put the cleaning liquid in the head protective plate.

Items		Content	performer
1	Daily check and maintenance	Check and clean the heads Clean the head protective plate Clean the scraping sheet Test the printed picture Handle the wasted ink barren Grease the guide rail Grease the belt wheel Clean the media holder	user
2	Weekly check and maintenance	Clean the surface of the heads Grease the guide rail Grease the belt wheel Clean the bottom of the carriage	user
3	Monthly check and maintenance	Replace the scraping sheet Check the coupling and jackscrew Clean the interior dust Clean the computer system/anti-virus	user
4	Quarterly check and maintenance	Clean the ink tube system Replace the ink tank Check the UV heating Check the platform heating Check the motor and driver	engineer
5	Annually check and maintenance	Replace the head protective plate Clean the ink system Replace the ink pump Horizontalize the guide rail and platform total check and the screws' inspection	engineer

7-2 Daily Check and Maintenance

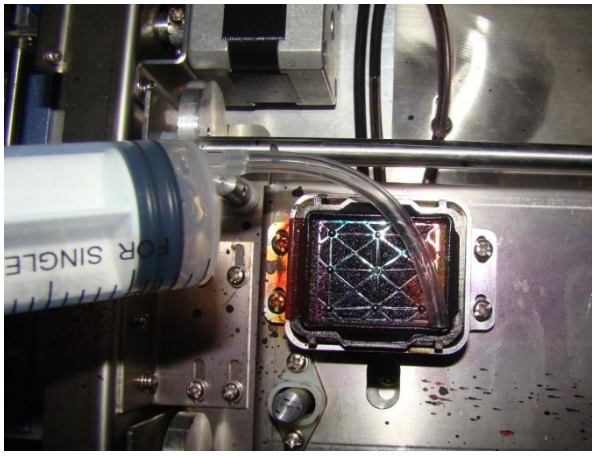
7-2-1 Print Head check and cleaning

Daily check of the head before turning on the machine	After starting the machine, print a total head status testing bar and save it.	Testing of head 1, feed in media 2, set the starting point(white edge) 3, when the machine is standing by, carry out one testing procedure.
Test of head before printing	Every time before printing, check the head whether they are jammed or surface dry.	
Cleaning of the head when printing	If the head jammed when printing, suspend the project and clean the head right away.	
Daily check of the head after work	After finishing the last image, print a total head status testing bar and contrast with the daily starting one. If the head jammed, manually clean it right away, until get the same testing bar as the daily starting one.	Cleaning of head 1, when standing by, press clean button once. clean

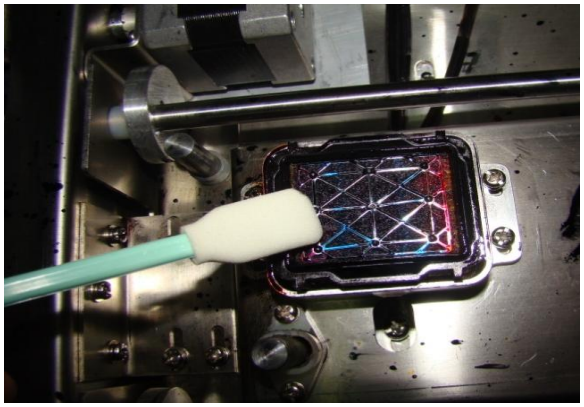
7-2-2 Head Protective Plate Cleaning

Every day, before turning on and off the machine, clean the head protective plate, in order to assure there are no dirt on the head.

(1) Inject some cleaning liquid to the plate with the cylinder.

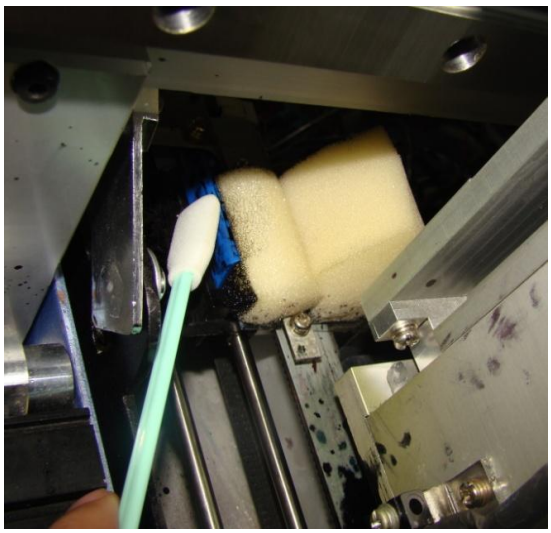


（2） Clean the plate with cotton swab, both the cotton mat and circumference.



7-2-3 Scraping Sheet Cleaning

Wipe both sides of the scraping sheet with cotton swab, which had been immersed in cleaning liquid.



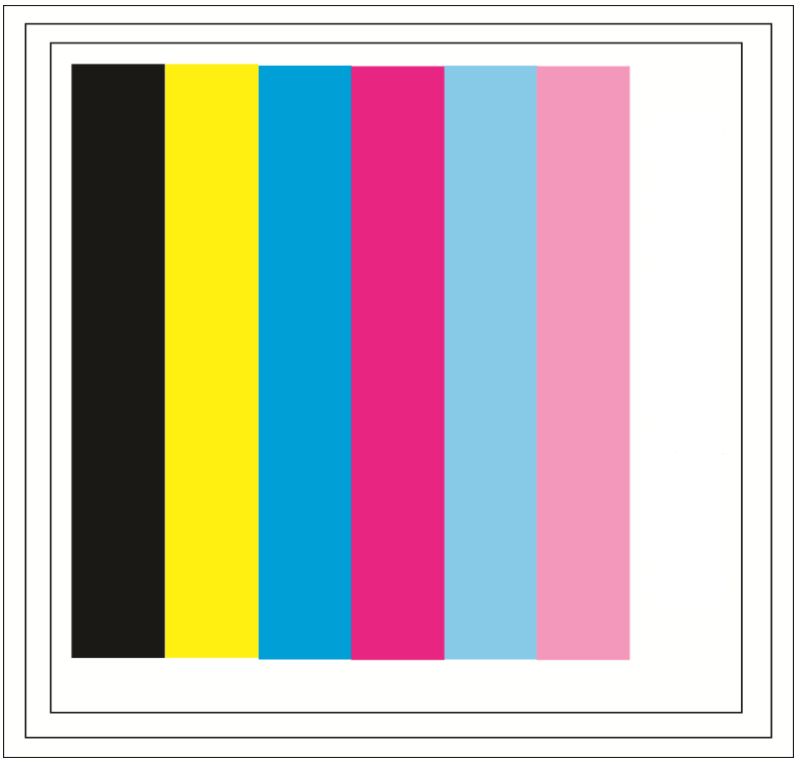
Caution!

Water based cleaning liquid should not be mixed with solvent cleaning liquid. Otherwise, the head may be jammed or broken.

7-2-4 Printing Test Calibration

If the heating system, cooling fans and print heads are all in good status, start printing the test bar. The test bar can be formed by lines, characters and color block. See the picture below. The lines and characters must be black(C80,M80，Y80，K100). The color block can be formed by single color block （K、C、M、Y、LC、LM） or mixed color block.

Correct printed picture:

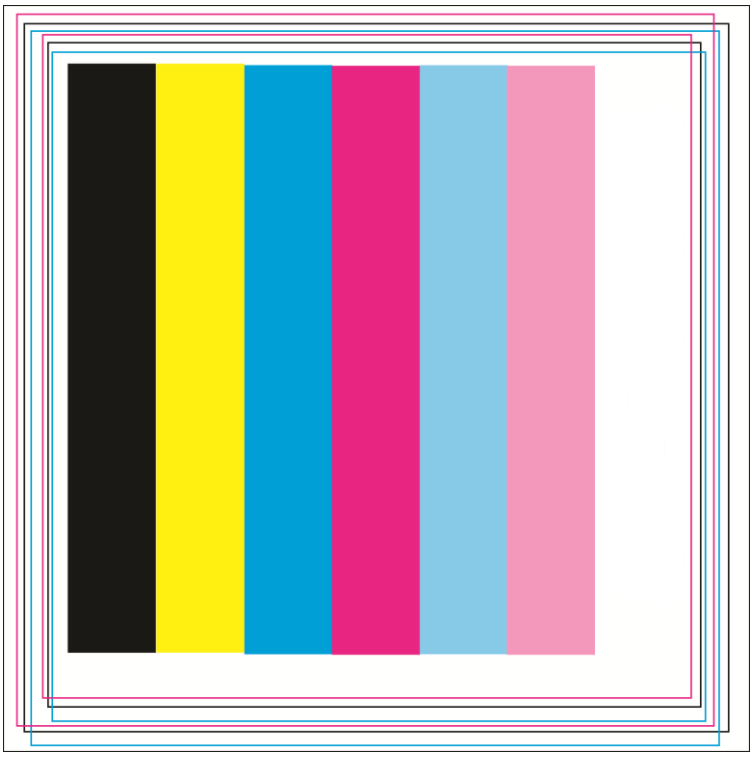


Caution !

Before printing the test image, make sure the print head is in its best status.

Color process problem:

If the test bar looks like the picture above, the heads need calibrating again. See 6-3.



Broken ink drop of single color:

See picture above, if there are white line or white block in the black block, clean the print head and reprint test bar. See 5-2-2.

All the colors turn white:

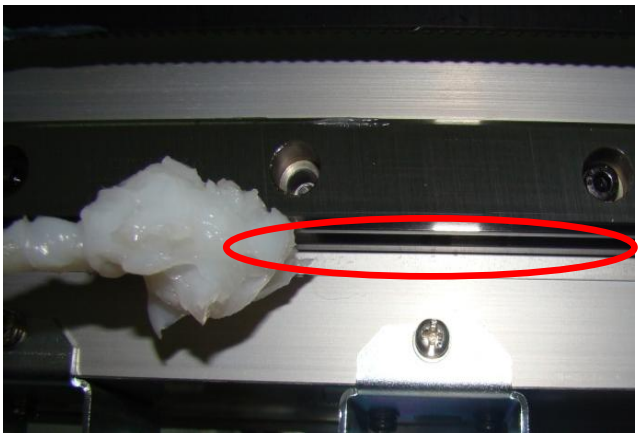
See picture above, if every color turns white or there are white lines in every color, recalibrate the feeding in speed of media (6-3-2) and stepping volume (6-3-5). If it doesn't work, reset the heating temperature. If it still doesn't work, you have to change the media. Relative information see 5-1-6.

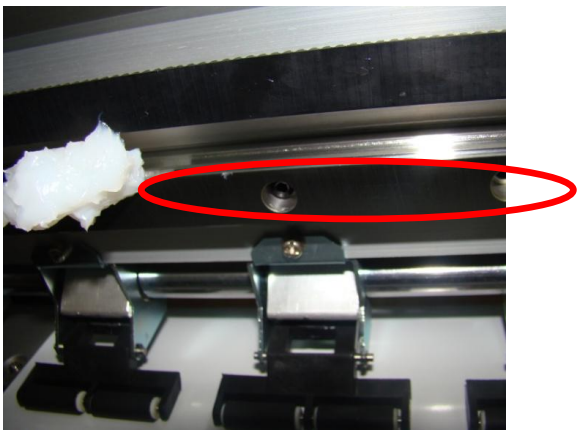
7-2-5 Wasted Ink Bucket Disposition

Get out the barrel of wasted ink when you finish daily work. Handle the wasted ink according to local law and regulations. If not, the wasted ink may flux and damage the machine.

7-2-6 Guide Rail Oiled

Grease both the up and down groove of the guide rail. And there should be 5-6 grease position of the whole rail.





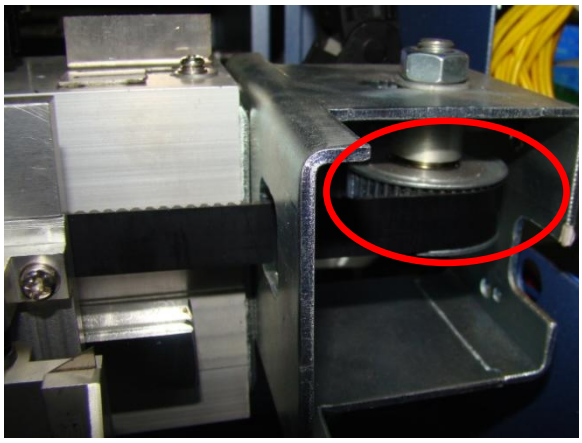
Caution !

The lubricating oil must be grease or liquid. Things like butter is forbidden to use, as it can speed up the ageing.

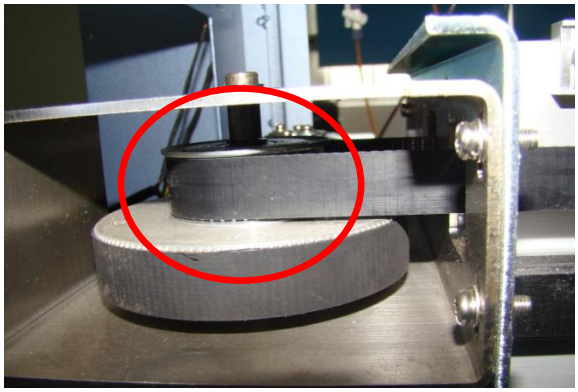
7-2-7 Mechanical Movement Wheel Oiled

As the guide rail, the belt wheel needs to be lubricated regularly, in order to affirm the smooth and steady of the movement. The positions need lubricating as below:

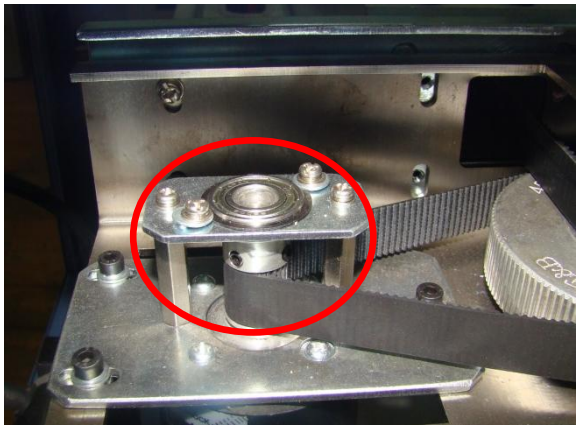
Belt wheel



Synchronic wheel



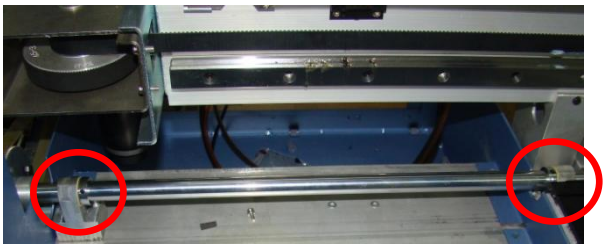
X-axial synchronic wheel



Y-axial synchronic wheel

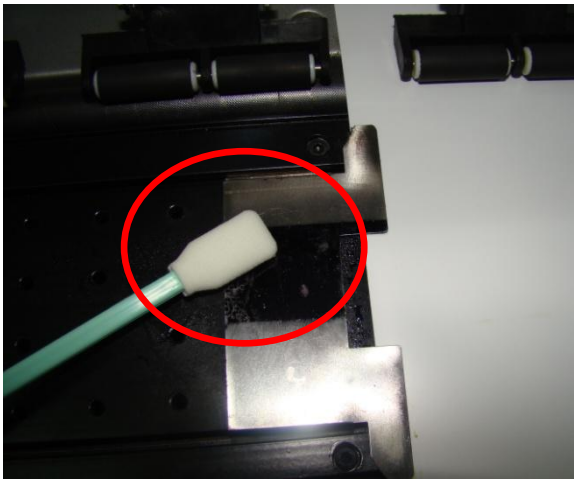
Caut i on ! The X/Y-axial synchronic wheel only needs lubrication once a month, and only a little every time. For example, if it's liquid, 1-2 drop is enough.

Y-axial holder



7-2-8 Media Holder Cleaning

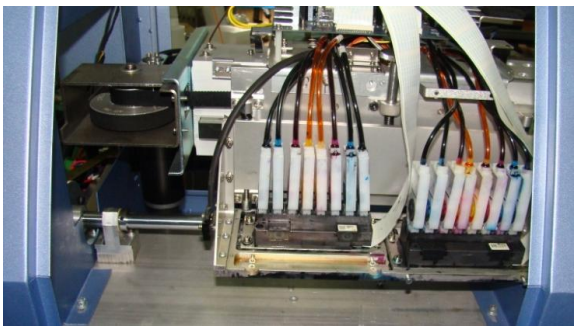
Clean it with cotton swab, which should been immersed in cleaning liquid.



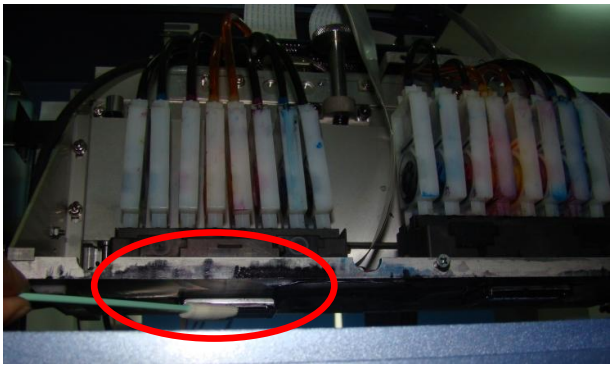
7-3 Weekly Check and Maintenance

7-3-1 Print Head Cleaning

(1) Turn off the machine.
Move the carriage to the left.



(2) Add some cleaning liquid to the cotton swab and lightly wipe the surface and circumference of the print head.



Caution!

Never wipe the print head heavily. Or the head may be broken.

7-3-2 Guide Rail Oiled

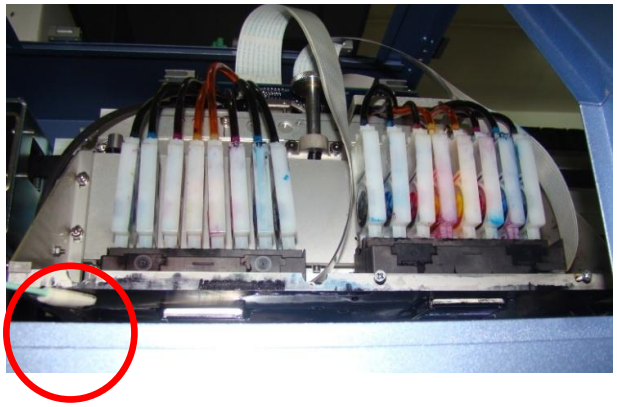
See 7-2-6.

7-3-3 Mechanical Movement Wheels Oiled

See 7-2-7.

7-3-4 Carriage Bottom Surface Cleaning

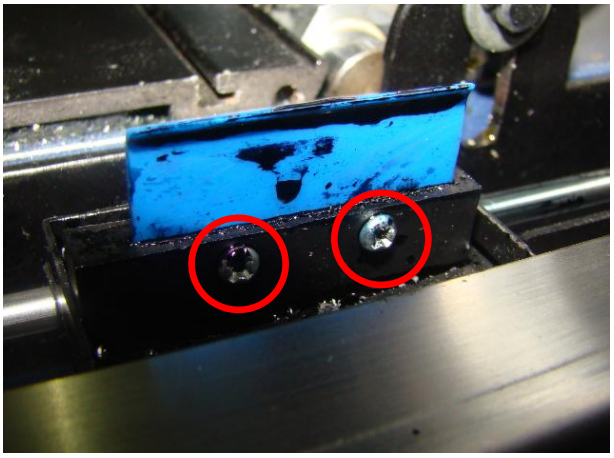
see 7-3-1.
Turn off the machine.
Move the carriage to the left. Then clean the bottom with cotton swab.



7-4 Monthly Check and Maintenance

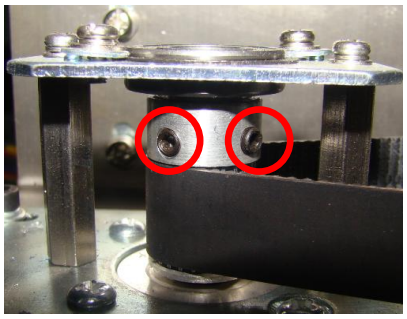
7-4-1 Change the Scraping Sheet

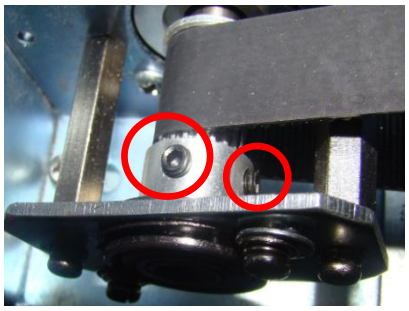
Pull out the scraping sheet. Remove the screws (see picture). And clamp out the sheet.



7-4-2 Check the Coupling and Jackscrew

Check and tighten the jackscrew of X-axial and Y-axial synchronic wheel.





7-4-3 Clean the Body's Internal Dust

You can use the blower gun to remove the inside dust, as the electrical parts' lifetime may be affected by the dust.

7-4-4 Organizing Computer/Antivirus

Clear the computer system regularly.

Make sure the capacity of the software disk is no less than 10 G.

7-5 Quarterly Check and Maintenance

7-5-1 cleaning the Ink Channels System

Install the special cleaning ink tank and inject cleaning liquid. See 4-4.

Connect the tubes. See 4-4.

Start cleaning.

Repeat the steps above, until the ink tubes are clean.

7-5-2 Change the Ink Sac

Contact the local distributor.

7-5-3 Check the Infrared Heating

Contact the local distributor.

7-5-4 Check the Platform Heating

Contact the local distributor.

7-5-5 Check the Motor and Driver

Contact the local distributor.

7-6 Annually Check and Maintenance

7-6-1 Change the Head Protective Plate

Contact the local distributor.

7-6-2 Clean the Ink Channel and Ink Pump

Clean the ink system please see 7-5-1.

Chang the ink pump please contact the local distributor.

7-6-3 Check the Level of Guide Rail and Platform

Contact the local distributor.

7-6-4 Check the whole Machine and Loose Screws

Contact the local distributor.

7-7 Maintenance During Turning Off for a Long Period

7-7-1 Long period (2 days --1 week) turning off preparation

If you wanna shut the machine for more than 2 days, please proceed the steps below:

1, clean the scraping sheet. See 7-2-3.

2, clean the head protective plate. See 7-2-3.

3, maintain the print head.

Open the machine once 2 days and test the head's printing status. See 7-2-3. Then, turn off the machine and maintain the print heads. See 5-2-9.

7-7-2 Long period (1 week --4 weeks) turning off preparation

If you wanna shut the machine for more than 1 week, please proceed the steps below:

1, clean the scraping sheet. See 7-7-1.

2, clean the head protective plate. See 7-7-1.

3, maintain the print head. See 5-2-9.

7-7-3 Long period (above 4 weeks) turning off preparation

If you wanna shut the machine for more than 4 weeks, please proceed the steps below:

1, clean the scraping sheet. See 7-7-1.

2, clean the head protective plate. See 7-7-1.

3, clean the ink tube. See 7-5-1.

4, retain some cleaning liquid. See 7-5-1.

5, maintain the print head. See 5-2-9.

8 Frequently Asked Questions and Solutions.

8-1 Print troubles shooting

8-1-1 White lines in printed picture.

There are white lines on the image--picture 1.

Reason:

The media has been fed in incorrectly or the setting of stepping volume is incorrect.

Solution:

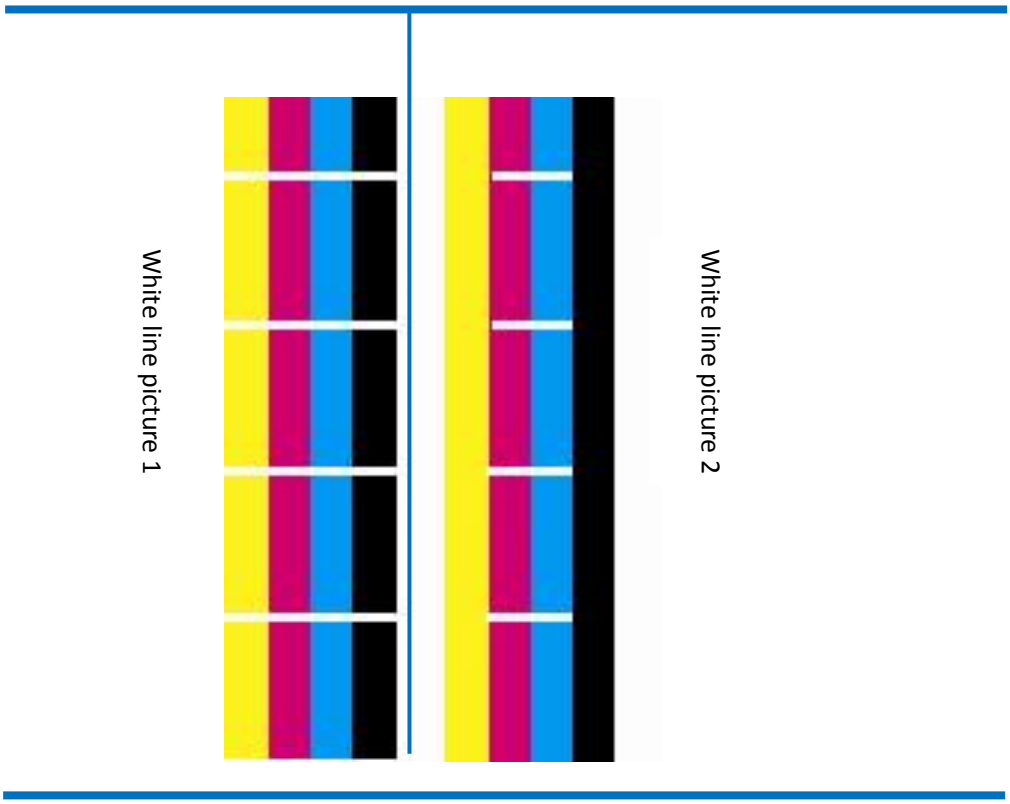
1, feed in the media correctly, try to make it tight and straight. See paragraph 5-1-5.

2, calibrate the stepping volume. See paragraph 6-3-5.

3, change the stepping speed. See paragraph 6-3-2.

Caution !

If there are white lines in every color, carry out the procedure above. If there are only white lines in one color, do the calibration follow picture 2 below.



There are white lines on the image—picture 2.

Reason:

The head has broken line or jam.

Solution:

1. Make sure whether the head has been tested and cleared before printing. See paragraph 5-2-1 and 5-2-2.

2. Suspend printing and clean the head and test it. See paragraph 5-2-1 and 5-2-2.
3. Force to clean the head. See paragraph 5-2-2.
4. Clean the head protective plate. See paragraph 7-2-2.
5. Repeat step 2 and step 3.
6. For the information of replacing the jammed or broken head, see paragraph 8-3. And contact local distributor.

Caution!

If this problem occurs when printing image, suspend the machine and try to solve it. If ink in the head solidified, it's very useful to clean the head.

There are white lines on the image—picture 3.

Reason:
The ink and media are incompatible.
Solution:
1, Do the stepping calibration. See paragraph 6-4-5.
2, turn down the heating temperature and do the stepping calibration. See paragraph 5-1-10 and 6-4-5.
3, turn up the heating temperature and do the stepping calibration. See paragraph 5-1-10 and 6-4-5.
4, increase the PASS number. Chose printing model in RIP.
5, print under high ink density model. set the ink drop in RIP.
6, print on the media which you have got high quality image before.

8-1-2 Black lines in printed picture

There are black lines on the image--picture 1.

Reason:

it's dirty on the circumference of the head or the bottom of the carriage.

Solution:

1, clean the head and carry out head cleaning. See paragraph 7-3-1 and 5-2-2.

2, clean the carriage and carry out head cleaning. See 7-3-4 and 5-2-2.

3, lift up the carriage. See paragraph 5-2-3.

4, adjust the cooling fans. See paragraph 5-1-9.

5, clean the media holder. See paragraph 7-2-8.

There are black lines on the image--picture 2.

Reason:

Media is too sensitive to both-way printing.

Solution:

1, print under single-direction model.

2, increase the PASS number. Chose printing model in RIP.

There are black lines on the image--picture 3.

Reason:

The media's feeding in is not enough.

The ink needs a long time to dry.

The calibrating of fore and after head is incorrect.

Solution:

1, do the calibration of stepping. See paragraph 6-4-5.

2, change the speed of media's movement. See paragraph 6-3-2.

3, increase the heating temperature. See paragraph 5-1-10.

4, print under single-way model.

5, increase the PASS number. Chose printing model in RIP.

6, do calibration of head position. See paragraph 6-4.

8-1-3 Dirty printed picture

Dirty printed image--picture 1.

Reason:
Ink has spread to the media.
Solution:
1, do both-direction printing calibration for the current media. See paragraph 6-4-4.
2, assure the carriage is in a suitable position. If not, adjust its height. See paragraph 5-2-3.
3, do daily maintenance(cleaning of the scraping sheet and head protective plate). And then clean the head. See paragraph 5-2-2.
4, clean the head. See paragraph 5-2-2.
5, make sure the environment temperature within 18-25 celsius.
6, increase the heating temperature according to printing requirement. See paragraph 5-1-10.
7, print under single-way model.
8, increase PASS number. Chose printing model in the RIP.
9, print under high resolution model. Chose printing model in the RIP.
10, use media that has been applied successfully in the past.

Dirty printed image--picture 2.

Reason:
Ink drop from the head unexpected.
Print head touch the media.
Solution:
1, make sure the media is flat, without fold or winkle.
2, lift up the carriage. See paragraph 5-2-3.
3, adjust the cooling fans. See paragraph 5-1-9.
4, do daily maintenance (cleaning of the scraping sheet and head protective plate). And then clean the head. See paragraph 5-2-2.
5, clean the head and then carry out head cleaning. See paragraph 7-3-1.
6, wipe the media by dry and clean fabric.
7, clean the media holder. See paragraph 7-2-8.
Dirty printed image--picture 3.

Reason:
There are winkle in the media, result in print head touch the media.
Solution:
1, make sure the media is fed in correctly.
2, clean the bottom of the carriage. See 7-3-4.
3, adjust the heating temperature. See 5-1-10.
4, adjust the cooling fans. See 5-1-9.
5, lift up the carriage. See 5-2-3.
6, clean the media holder. See 7-2-8.
7, change the media.

8-1-4 Blurry printed picture

Blurry printed picture--picture 1.

Reason:
The drying speed is slow.
Too much ink.
Solution:
1, increase the heating temperature. See 5-1-10.
2, change the printing model to single-way and high-quality.
3, print under high PASS and high resolution.
4, print speed should be low.

Blurry printed picture--picture 2.

Reason:

The position of the heads is incorrect.

Both-way calibration is failed.

Solution:

1, calibrating the print heads. See 6-4.

2, according to the media, both-way calibrating the heads. See 6-4-4.

3, single-way print for test.

8-2 Error Code Description

Error code formation							
1st byte		2nd byte		3rd byte	4th byte meaning		
80	SVC	**01**	COM	**00**	SVC	**00**	(STATUS_SVC+0) //USB chip. After 0.5 second, the USB haven't started, maybe it's broken
80		**02**	CoreBoard	**00**	SVC	**01**	(STATUS_SVC+1) //FPG chip 1. After connecting power, stay in high position, the chip may be broken
80		**03**	Software	**00**	SVC	**02**	(STATUS_SVC+2) //FPGA chip 2. Lower the n setting, but it still in the high position
80		**04**	Sensor	**00**	SVC	**03**	(STATUS_SVC+3) //FPGA chip 3. N setting has high voltage
80		**05**	Passwd	**00**	SVC	**04**	(STATUS_SVC+4) //FPGA chip 4. When setting the FPGA, false alarming or retried 10 times
80			Unk	**00**	SVC	**05**	(STATUS_SVC+5) //failed update

							of the MB
80				**00**	SVC	**06**	(STATUS_SVC+6) //no factory initialization for the board
80				**00**	SVC	**07**	(STATUS_SVC+16) //failed in test of factory tool's memory
80				**00**	SVC	**08**	(STATUS_SVC+7) //failed in the test of dynamic memory
80				**00**	SVC	**09**	(STATUS_SVC+8) //cannot read FPGA in the flash memory
80				**00**	SVC	**10**	(STATUS_SVC+9) //the dynamic memory is small, cannot support the current setting
80				**00**	SVC	**11**	(STATUS_SVC+10) //false reading of the board's ID
80				**00**	SVC	**12**	(STATUS_SVC+11) //system'ARM initialization error
				00	SVC	**13**	(STATUS_SVC+12) //false HB initialization
				00			
40	FTA			**00**	FTA	**00**	(STATUS_FTA+0) //USB chip restarted unusually
40				**00**	FTA	**01**	(STATUS_FTA+1) //false printing data format
40				**00**	FTA	**02**	(STATUS_FTA+2) //false printing data size
40				**00**	FTA	**03**	(STATUS_FTA+3) //there should be no appendixes data
40				**00**	FTA	**04**	(STATUS_FTA+4) //real PASS number doesn't match the number in the setting
40				**00**	FTA	**05**	(STATUS_FTA+5) //the usb data's format is wrong
40				**00**	FTA	**06**	(STATUS_FTA+6) //after finishing one PASS printing, DMAO is still working
40				**00**	FTA	**07**	(STATUS_FTA+7) //false starting position or ending position
40				**00**	FTA	**08**	(STATUS_FTA+8) //the starting position doesn't reach the origin position
40				**00**	FTA	**09**	(STATUS_FTA+9) //printing width exceed the limitation

40				**00**	FTA	**10**	(STATUS_FTA+10) // movement control's first stage initialization failed.
40				**00**	FTA	**11**	(STATUS_FTA+11) //movement control's second stage initialization failed.
40				**00**	FTA	**12**	(STATUS_FTA+12) //HB's first stage initialization failed.
40				**00**	FTA	**13**	(STATUS_FTA+13) //HB's second stage initialization failed
40				**00**	FTA	**#**	(STATUS_FTA+14) //MB's LVDS chip unlocked, or the wire hasn't been inserted
40				**00**	FTA	**#**	(STATUS_FTA+15) //direction value of PASS definition exceeded.
40				**00**	FTA	**#**	(STATUS_FTA+16) //updating failed
40				**00**	FTA	**#**	(STATUS_FTA+17) //read RAM failed
40				**00**	FTA	**#**	(STATUS_FTA+18) //write in RAM failed
40				**00**	FTA	**#**	(STATUS_FTA+19) //Board haven't finished default setting
40				**00**	FTA	**#**	(STATUS_FTA+20) //MB has been restarted
40				**00**	FTA	**#**	(STATUS_FTA+21) //Spectra high voltage board's first stage initialization failed
40				**00**	FTA	**#**	(STATUS_FTA+22) //print head type from the HB unmatch the setting type, replace the HB or reset the hardware parameter.
40				**00**	FTA	**#**	(STATUS_FTA+23) //the control system unmatch the software version. Replace the control system or update the software version.
40				**00**	FTA	**#**	(STATUS_FTA+24) //exceed time limit, re-entry code.
40				**00**	FTA	**#**	(STATUS_FTA+25) //inner error, blank PASS or no Y-axial feeding
40				**00**	FTA	**#**	(STATUS_FTA+26) //connect to USB1.1, fatal error

40				**00**	FTA	**#**	(STATUS_FTA+27) //language of the interface is unmatched to the limit. Reset the language or password.
40				**00**	FTA	**#**	(STATUS_FTA+28) //PINCONF write in FPGA error
40				**00**	FTA	**#**	(STATUS_FTA+29) //color number in the factory tools is wrong
40				**00**	FTA	**#**	(STATUS_FTA+30) //false input to the MB's RAM
40				**00**	FTA	**#**	(STATUS_FTA+31) //print head exceed 55 celsius, all the heating are forced to close.
40				**00**	FTA	**#**	(STATUS_FTA+32) //software error or version error.
40				**00**	FTA	**#**	(STATUS_FTA+33) //Software version error. The hardware need special software version.
40				**00**	FTA	**#**	(STATUS_FTA+34) //current system doesn't support one head two color.
40				**00**	FTA	**#**	(STATUS_FTA+35) //exceed the ink quantity limitation, reset the code.
40				**00**	FTA	**#**	(STATUS_FTA+36) //software version error. The hardware require the software to support the ink code.
40				**00**	FTA	**#**	(STATUS_FTA+37) //EPSON print head error.
40				**00**	FTA	**#**	(STATUS_FTA+38) //EPSON MB FPGA error. Usually, it result from over-frequency or disturbing of data.
40				**00**	FTA	**#**	(STATUS_FTA+39) //writing board ID error
				00	FTA	**#**	(STATUS_FTA+40) //default setting error
				00			
20	ERROR			**00**	ERR	**00**	(STATUS_ERR+0) //EP0 order has been broken down
20				**00**	ERR	**01**	(STATUS_ERR+1) //connect to USB 1, it's a fatal error

20				**00**	ERR	**02**	(STATUS_ERR+3) //overtime of communication between MB and HB
20				**00**	ERR	**03**	(STATUS_ERR+2) //overtime of movement communication
20				**00**	ERR	**04**	(STATUS_ERR+4) //PASS data unfinished
20				**00**	ERR	**05**	(STATUS_ERR+5) //printing data is less than ignition data, or invalid strike process
20				**00**	ERR	**06**	(STATUS_ERR+6) //printing data is larger than ignition data
20				**00**	ERR	**07**	(STATUS_ERR+7)
20				**00**	ERR	**08**	(STATUS_ERR+8)//inner status
20				**00**	ERR	**09**	(STATUS_ERR+9) //FPGA got false order
20				**00**	ERR	**#**	(STATUS_ERR+10) //there are ignition order when the moving speed is too fast or uneven
20				**00**	ERR	**#**	(STATUS_ERR+11) //30 seconds after sending move order, haven't got finish order
20				**00**	ERR	**#**	(STATUS_ERR+12) // false clearing order, which should be stopped
20				**00**	ERR	**#**	(STATUS_ERR+13) //false clearing order, which should be stopped
20				**00**	ERR	**120**	(STATUS_ERR+) // test status 1
				00	ERR	**121**	(STATUS_ERR+0x51) //test status 1
				00			
				00	INI	**00**	(STATUS_INI+0) //initializing MB
				00	INI	**01**	(STATUS_INI+1) //initializing USB
				00	INI	**02**	(STATUS_INI+2) //initializing FPGA
				00	INI	**03**	(STATUS_INI+3)//initializing movement
				00	INI	**04**	(STATUS_INI+4) //initializing HB
				00	INI	**05**	(STATUS_INI+5) //Spectra is initializing high voltage board

				00			
4	Warning			**00**	WAR	**00**	(STATUS_WAR+0) //undefined data mark, it will be ignored
4				**00**	WAR	**01**	(STATUS_WAR+1) //EP0 data transfer unfinished, receive new EPO data at the same time, the previous data will be ignored
4				**00**	WAR	**02**	(STATUS_WAR+2)
4				**00**	WAR	**03**	(STATUS_WAR+3)
4				**00**	WAR	**04**	(STATUS_WAR+4)
4				**00**	WAR	**05**	(STATUS_WAR+5)
4				**00**	WAR	**06**	(STATUS_WAR+6)
4				**00**	WAR	**07**	(STATUS_WAR+7)
4				**00**	WAR	**08**	(STATUS_WAR+8) //input error of timing code, there are character out of 0~F
4				**00**	WAR	**09**	(STATUS_WAR+9)// illegal timing code.
4				**00**	WAR	**#**	(STATUS_WAR+10) //timing code doesn't match the supplier.
4				**00**	WAR	**#**	(STATUS_WAR+11) //timing code doesn't match the board.
4				**00**	WAR	**#**	(STATUS_WAR+12) //another 100 hours, it will exceed the time limitation. First warning.
4				**00**	WAR	**#**	(STATUS_WAR+13) // another 50 hours, it will exceed the time limitation. Second warning.
4				**00**	WAR	**#**	(STATUS_WAR+14) //another 1 hour, it will exceed the time limitation. Final warning.
4				**00**	WAR	**#**	(STATUS_WAR+16) // input error of selective code, there are character out of 0~F.
4				**00**	WAR	**#**	(STATUS_WAR+17)//illegal selective code.
4				**00**	WAR	**#**	(STATUS_WAR+18) //the selective code doesn't match the

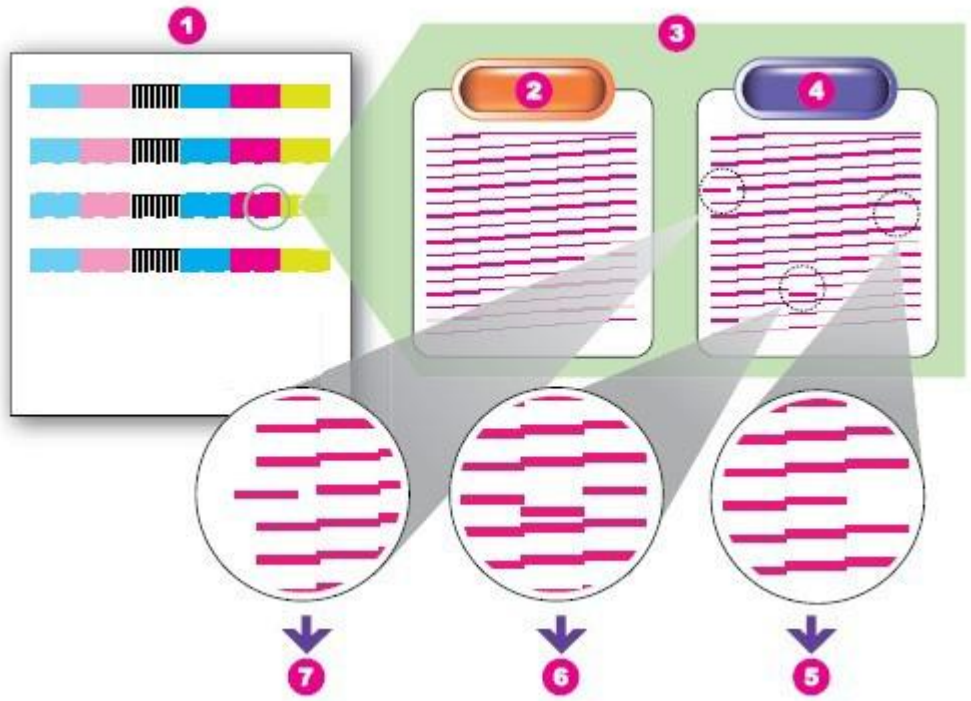
							supplier.
4				**00**	WAR	**#**	(STATUS_WAR+19) //the selective code doesn't match the board.
4				**00**	WAR	**#**	(STATUS_WAR+20) //sensor connecting the ink tank and ink pump doesn't work
4				**00**	WAR	**#**	(STATUS_WAR+21) // attempt to over clocking, but failed, as the main board doesn't support.
4				**00**	WAR	**#**	(STATUS_WAR+22) //input error of ink code, there are character out of 0~F.
4				**00**	WAR	**#**	(STATUS_WAR+23)//illegal ink code
4				**00**	WAR	**#**	(STATUS_WAR+24) //ink code doesn't match the supplier.
4				**00**	WAR	**#**	(STATUS_WAR+25) //ink code doesn't match the board.
4				**00**	WAR	**#**	(STATUS_WAR+26) // another 10 liters ink, it will exceed the ink limitation. First warning.
4				**00**	WAR	**#**	(STATUS_WAR+27) //another 5liters ink, it will exceed the ink limitation. Second warning.
4				**00**	WAR	**#**	(STATUS_WAR+28) //another 1liter ink, it will exceed the ink limitation. Final warning.
4				**00**	WAR	**#**	(STATUS_WAR+29) //only support Konica and Polaris heads. For other head, the ink drop is always 42pl.
4				**00**	WAR	**#**	(STATUS_WAR+30)
4				**00**	WAR	**#**	(STATUS_WAR+31)
4				**00**	WAR	**#**	(STATUS_WAR+32) //print data under ignition frequency or invalid ignition
4				**00**	WAR	**#**	(STATUS_WAR+33) //print data exceed the ignition frequency
4				**00**	WAR	**#**	(STATUS_WAR+34) //head temperature too low

4				**00**	WAR	**#**	(STATUS_WAR+35) //head temperature too high
4				**00**	WAR	**#**	(STATUS_WAR+36) //print head didn't connect
4				**00**	WAR	**#**	(STATUS_WAR+37) //FPGA feedback too much
4				**00**	WAR	**#**	(STATUS_WAR+38) // FPGA feedback too less
4				**00**	WAR	**#**	(STATUS_WAR+39) //nozzle number unknow
4				**00**	WAR	**#**	(STATUS_WAR+40) // *head temperature too high*
4				**00**	WAR	**#**	(STATUS_WAR+41) //XHOT error.
				00			
				00			
				00			(STATUS_UPDATING+1) //Can not use (STATUS_UPDATING+0)
				00			(STATUS_UPDATING+2)
				00			(STATUS_UPDATING+3)
				00			(STATUS_UPDATING+4)
				00			(STATUS_UPDATING+5)
				00			(STATUS_UPDATING+6)
				00			(STATUS_UPDATING+7)
				00			(STATUS_UPDATING+8)
				00			(STATUS_UPDATING+9) //ARM flash erease or write error, 10 times retry
				00			(STATUS_UPDATING+10)
				00			(STATUS_UPDATING+11)
				00			(STATUS_UPDATING+12)
				00			(STATUS_UPDATING+13)

8-3 Print Head Defect (nozzle jam)

How to distinguish jammed print head, see below.

1	Feed in the media.
2	Confirm the starting point(white edge)
3	Under the interface of stand-by, press button to test the status of the heads.



1、 Print head status
2、 Whole print head status
3、 Enlarged picture of red print head
4、 Jammed print head status
5、 Totally jammed print head
6、 Off-angle print head
7、 Seriously off-angle print head

4	(Only if there are jammed print head, you need to carry out this procedure) Under the interface of stand-by, press clean button once, and then choose “strong” to clear the print head. When finished, retest the print head by repeating step 3.
5	Repeat step 4, if there are still jammed heads, go to next step.
6	Under the interface of stand-by, press clean button once, and choose “ink fill” to clearthe print head. When finished , repeat step 3. If there are still problem, go to next step.
7	Clear the print head by hand, see paragraph 5-2-2.
8	When finished, follow step 4 to clear the print head and then follow step 3 to retest the print head.
	After all the steps above, if there are still one or two defect, the print head is broken. You have to replace it by a new one. Caution: retain the test result of the print head, in order to send to the local distributor for testing.

If you are using eco-solvent ink and cannot solve the problem after finishing all the steps above, you'd better contact the local distributor as soon as possible.

Replace the print head

If you wanna replace the print head, please contact the local distributor.

9 Xunlang Customer Service

As cooperator, it's our responsibility to help you run your business smoothly.

Xunlang provide full-scaled, experiential and professional support to our customers. In order to provide more professional and seasonable service, we set up the customer service department, which is used to collect and study our customers' requirements. The customer service including installation& adjustment service, guarantee& update service, maintain& alternate service, telephone& internet support, software update service etc.

For more service, please kindly logon to our we call 021-37575015. And before you call our service line, you'd better:

- Check the "Frequently asked questions and solution" in the manual.
- Check relative procedure documents about the machine.
- If you have installed the third-party software driver and RIP software, check the "read me" file.
- If the problem resulted from the utility software, contact with the supplier.
- If you decide to call our local distributor, please kindly provide the information bellow:
  1, the machine model and series number, you can find it on the label of the machine.
  2, If there are error code on the led panel, please write it down and check it on "Error Code declaration".
  3, the computer information you are using.
  4, any other special software you are using, such as anti-virus software, modem driver etc.
  5, the cable you are using and its supplier.
  6, the connection type: USB or Internet.

Caution: it's a product of A-degree. Maybe, radio interference will occur in the nearby environment. In that situation, the user has to do something to prevent it.